					IENT OF NA	OF UTAH ATURAL RESO GAS AND MII				AMENDED RE	FORM 3 PORT	
		APPLI	CATION FOR F	PERMIT TO DRIL	.L			1. WEL	L NAME and NU Prickly	MBER Pear UF 11A-9	9D-12-15	
2. TYPE OF		ILL NEW WELL (	REENTER P&A	WELL DEE	PEN WELL (	)		3. FIEL	D OR WILDCAT	UNDESIGNATE	D	
4. TYPE OF	WELL	Gas We		d Methane Well: N				5. UNIT	or COMMUNIT	IZATION AGRE		AME
6. NAME OF	OPERATOR		BILL BARRET					7. OPE	RATOR PHONE	303 312-8164		
8. ADDRESS	OF OPERATOR	1099 18t		), Denver, CO, 802	202			9. OPE	RATOR E-MAIL BHilae	rs@billbarrettc		
	L LEASE NUMBER INDIAN, OR STATE			11. MINERAL OWN	IERSHIP	` C	·	v	RFACE OWNERS	HIP		
	UTI	U73006 IER (if box 12 = 'fee	e')	FEDERAL (III)	INDIAN [_	) STATE (_	) FEE(_	•	RAL IND		ATE ()	FEE ()
		OWNER (if box 12 =							RFACE OWNER	`		
		`		18. INTEND TO CO	OMMINGI F	PRODUCTION	FROM	19. SL/		` `		
(if box 12 =	ALLOTTEE OR TR : 'INDIAN')	IBE NAME		MULTIPLE FORMA	TIONS	gling Applicatio	-		_	ECTIONAL 📵	HORIZO	ONTAL 🔵
20. LOCAT	ION OF WELL		FOO	DTAGES	Q	TR-QTR	SECTIO	ON T	OWNSHIP	RANGE		MERIDIAN
LOCATION	AT SURFACE		1227 FNI	1635 FWL		NENW	9		12.0 S	15.0 E		S
Top of Up	permost Producin	g Zone	2638 FSI	2061 FWL		NESW	9		12.0 S	15.0 E		S
At Total D	epth		2638 FSI	2061 FWL		NESW	9		12.0 S	15.0 E		S
21. COUNT		RBON		22. DISTANCE TO		EASE LINE (Fe	et)	23. NUI	MBER OF ACRE	S IN DRILLING 20	UNIT	
				25. DISTANCE TO (Applied For Drill	ing or Com		POOL	26. PR	POSED DEPTH MD	7909 TVD:	7518	
27. ELEVAT	ION - GROUND LE	VEL		28. BOND NUMBE	R				JRCE OF DRILL RIGHTS APPRO	VAL NUMBER		ABLE
	7	7073		Hala Caa		000040			N	INE MILE CANY	ON	
04=1===	Unio Cino	Ozala a Olaz	Lamenth			Cement Infor e & Thread		. M 1 14/4	0	Castra	Viala	Waterla
String	Hole Size	Casing Size	Length 0 - 40	Weight 0.0		nknown	IVIA	0.0	Cement No Used	Sacks 0	Yield 0.0	Weight 0.0
							_		No Used	0	0.0	0.0
Surf	12.25	9.625	0 - 1000	0.0	J-	55 ST&C		0.0	No Used	0	0.0	0.0
									No Used	0	0.0	0.0
Prod	8.75	4.5	0 - 7909	0.0	P-	110 LT&C	_	0.0	No Used	0	0.0	0.0
					ATTACI	HMENTS						
	VERIFY	THE FOLLOWIN	G ARE ATTAC	HED IN ACCORI	DANCE W	ITH THE UTA	H OIL AND	GAS CONS	ERVATION GI	ENERAL RUL	.ES	
<b>W</b> EI	I PLAT OR MAP P	REPARED BY LICE!	NSED SURVEYOR	OR ENGINEER		COMP	PLETE DRILL	ING PLAN				
<del>-</del>						_			2 THAN THE LE	A OF OWNER		
		OF SURFACE OWN							R THAN THE LE	ASE OWNER		
		Y PLAN (IF DIRECTI	ONALLY OR HO			торос	GRAPHICAL					
NAME Brad	ty Dilay			TITLE Permit A	Analyst		PH	ONE 303 312	-8115			
	ly Kiley											
SIGNATUR				<b>DATE</b> 05/03/2	2012		EM	IAIL briley@bi	lbarrettcorp.cor	n		
API NUMBI		0		DATE 05/03/2	2012		EM	AIL briley@bi	lbarrettcorp.com	n		

# **DRILLING PROGRAM**

# BILL BARRETT CORPORATION Prickly Pear Unit Federal 11A-9D-12-15

NENW, 1227' FNL, 1635' FWL, Sec. 9, T12S-R15E (surface hole) NESW, 2638' FSL, 2061' FWL, Sec. 9, T12S-R15E (bottom hole) Carbon County, Utah

# 1 – 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals</u>

<u>Formation</u>	Depth – MD	Depth – TVD		
Green River	Surface	Surface		
Wasatch	2,914.74	2,733.00		
North Horn	5,178.76	4,788.00		
Dark Canyon	6,908.76	6,518.00		
Price River	7,228.76	6,838.00		
TD	7,908.76	7,518.00		

**PROSPECTIVE PAY:** \*Members of the Mesaverde formation and Wasatch formation (inclusive of the North Horn) are primary objectives for oil/gas. Any shallow water zones encountered will be adequately protected and reported. All potentially productive hydrocarbon zones will be cemented off.

# 3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	BOP Equipment
0 – 1000'	No pressure control required
1000' – TD	11" 3000# Ram Type BOP
	11" 3000# Annular BOP
- Drilling spool to a	accommodate choke and kill lines;
- Ancillary equipme	ent and choke manifold rated at 3,000#. All BOP and BOPE tests will be in
accordance with the	ne requirements of onshore Order No. 2;
- The BLM and the	State of Utah Division of Oil, Gas and Mining will be notified 24 hours in
advance of all BC	OP pressure tests.
- BOP hand wheels	may be underneath the sub-structure of the rig if the drilling rig used is set up
to operate most ef	ficiently in this manner.

Bill Barrett Corporation Drilling Program Prickly Pear Unit Federal 11A-9D-12-15 Carbon County, Utah

# 4. Casing Program

Hole Size	Setting Depth		Casing	Casing	Casing	Thread	Condition	
	From	<u>To</u>	Size	Weight	<u>Grade</u>			
24"	Surface 40'		14"	65#				
12 1/4"	Surface	1000'	9 5/8"	36#	J or K 55	ST&C	New	
8 3/4" and	Surface	TD'	4 1/2"	11.6#	I-100,	LT&C	New	
7 7/8"					N-80,			
					P110			

Note: BBC will use one of the options of production casing size noted above. Casing grade for each option could be I-100, P-110 or I-80. In addition, the 7 7/8" hole size will begin at the point the bit is changed.

# 5. Cementing Program

14" Conductor Casing	Grout cement
9 5/8" Surface Casing	Lead with approximately 170 sx Varicem cement + additives mixed at 12.0 ppg (yield = 2.53 ft <sup>3</sup> /sx).
	Tail with approximately and 190 sx Halcem cement with additives mixed at 15.8 ppg (yield = $1.16 \text{ ft}^3/\text{sx}$ ) circulated to surface with 100% excess.
4 ½" Production Casing	Lead with approximately 310 sx of Halliburton Light Premium cement with additives mixed at 12.5 ppg (yield = 1.96 ft <sup>3</sup> /sx).
	Tail with approximately 1320 sx of 50/50 Poz cement + additives mixed at 13.4 ppg (yield = $1.45 \text{ ft}^3/\text{sk}$ ), circulated to ~800' with 15% excess.
Note: Actual volumes to be calcula	ted from caliper log.

# 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss (API filtrate)	<u>Remarks</u>
0-40'	8.3 - 8.6	27 - 40		Native Spud Mud
40' – 1000'	8.3 - 8.6	27 - 40	15 cc or less	Native/Gel/Lime
1000' – TD	8.6 - 9.5	38 - 46	15 cc or less	LSND/DAP

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

# 7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated;
Testing	None anticipated;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	Run every 1000' and on trips, slope only;
Logging	DIL-GR-SP, FDC-CNL-GR-CAL-Pe-Microlog, Sonic-GR, all TD to surface.

Bill Barrett Corporation Drilling Program Prickly Pear Unit Federal 11A-9D-12-15 Carbon County, Utah

# 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3714 psi\* and maximum anticipated surface pressure equals approximately 2060 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A - (0.22 x TD)

# 9. <u>Auxiliary Equipment</u>

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

## 10. <u>Drilling Schedule</u>

Location Construction: 8/1/2012 Spud: 12/1/2012

Duration: 10 days drilling time

15 days completion time

## **Other -Onshore Variances Requested**

# Use of EFM and Flow Conditioner (Onshore Order No. 5)

Use of an electronic flow meter (EFM) for gas measurement purposes is requested with this application.

Use of a flow conditioner is also being requested (versus straightening vanes). Flow conditioners have been proven to be as or more effective than straightening vanes in conditioning gas for measurement. In addition to their superior conditioning properties, they take up less space (shorter meter runs/smaller footprint), and are less prone to corrosion and dislodging (greater reliability). In the past BBC has experienced straightening vanes becoming dislodged in normal service and compromising their conditioning effectiveness.

Make/Model: CPA 50E

Dimensions: 2" or 3" Flanged conditioners - 16" minimum up to 3 1/2' long x 2" (ID 2.067) OR 24" minimum up to 3 1/2' long x 3" (ID 3.068)

#### Air Drilling (Onshore Order No. 2)

Air drilling operations will be conducted with the purpose of drilling and setting surface casing with a truck mounted air rig, for all Federal wells located at this pad. Surface casing is approximately 1000'. Bill Barrett Corporation will comply with the following surface air drilling operation requirements:

- 1. Properly lubricated and maintained diverter system in place of a rotating head. The diverter system forces air and cutting returns to the cuttings pit and is used solely to drill the surface hole. In addition, BBC will use a properly lubricated and maintained rotating head in compliance with OOG No. 2.
- 2. The Blooie line will discharge at least 100 feet from the wellbore and will be securely anchored.
- 3. An automatic igniter or continuous pilot light will be installed at the end of the blooie line.
- 4. Compressors that supply energy to drill the air filled surface hole will be located 100' away from the wellbore and on the opposite side of the blooie line. The compressors will be equipped with 1) emergency kill switch, 2) pressure relief valves 3) spark arresters on the motors.

# PRESSURE CONTROL EQUIPMENT - Schematic Attached

- A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:
  - 1. One (1) blind ram (above).
  - 2. One (1) pipe ram (below).
  - 3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
  - 4. 3-inch diameter choke line.
  - 5. Two (2) choke line valves (3-inch minimum).
  - 6. Kill line (2-inch minimum).
  - 7. Two (2) chokes.
  - 8. Two (2) kill line valves, one of which shall be a check valve (2-inch minimum).
  - 9. Upper kelly cock valve with handles available.
  - 10. Safety valve(s) & subs to fit all drill string connections in use.
  - 11. Pressure gauge on choke manifold.
  - 12. Fill-up line above the uppermost preventer.

# B. Pressure Rating: 3,000 psi

# C. Testing Procedure:

# Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

## **Blow-Out Preventer**

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yieldstrength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirmentsof the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

# D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

#### E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the Onshore Oil & Gas Order Number 2.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

# F. Miscellaneous Information:

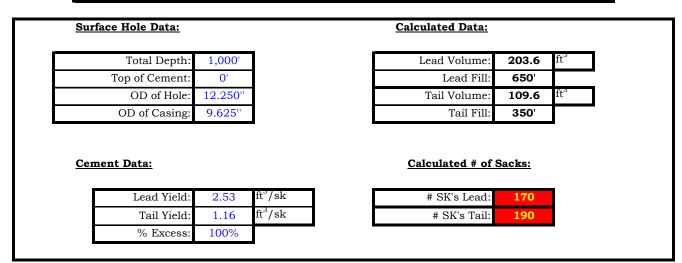
The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of Onshore Oil & Gas Order Number 2. The choke manifold will be located outside the rig sub-structure. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

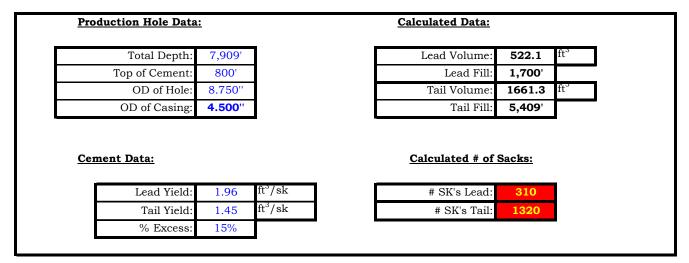
A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



# NINE MILE CEMENT VOLUMES

Well Name: <u>Prickly Pear Unit Federal 11A-9D-12-15</u>



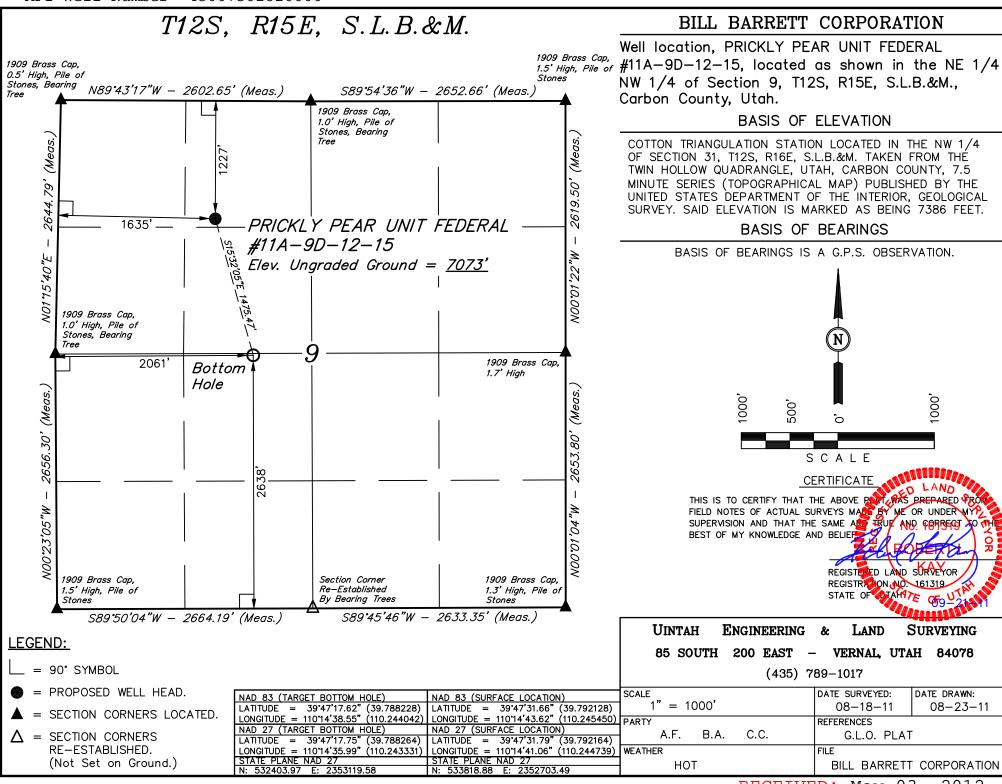


# Prickly Pear Unit Federal 11A-9D-12-15 Proposed Cementing Program

b Recommendation	commendation							
Lead Cement - (650' - 0')								
Varicem ™ Cement	Fluid Weight:	12	lbm/gal					
0.25 lbm/sk Poly-E-Flake	Slurry Yield:	2.53	ft <sup>3</sup> /sk					
	Total Mixing Fluid:	14.82	Gal/sk					
	Top of Fluid:	0'						
	Calculated Fill:	650'						
	Volume:	36.25	bbl					
	Proposed Sacks:	170	sks					
Tail Cement - (1000' - 650')								
Halcem ™ System	Fluid Weight:	15.8	lbm/gal					
2.0% Calcium Chloride	Slurry Yield:	1.16	ft <sup>3</sup> /sk					
	Total Mixing Fluid:	4.98	Gal/sk					
	Top of Fluid:	650'						
	Calculated Fill:	350'						
	Volume:	19.52	bbl					
	<b>Proposed Sacks:</b>	190	sks					

Job Recommendation	Production Casing		
Lead Cement - (800' - 2500')			
Halliburton Light Premium	Fluid Weight:	12.5	lbm/gal
0.3% Versaset	Slurry Yield:	1.96	ft <sup>3</sup> /sk
0.3% Super CBL	Total Mixing Fluid:	10.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	800'	
0.25% Fe-2	Calculated Fill:	1,700'	
0.2% Econolite	Volume:	92.99	bbl
	<b>Proposed Sacks:</b>	310	sks
Tail Cement - (2500' - 7909')			
50/50 Poz Premium	Fluid Weight:	13.4	lbm/gal
3.0 % KCL	Slurry Yield:	1.45	ft <sup>3</sup> /sk
0.75% Halad®-322	Total Mixing Fluid:	6.82	Gal/sk
0.2% FWCA	Top of Fluid:	2,500'	
0.3% Super CBL	Calculated Fill:	5,409'	
0.125 lbm/sk Poly-E-Flake	Volume:	295.87	bbl
1.0 lbm/sk Granulite TR 1/4	<b>Proposed Sacks:</b>	1320	sks

RECEIVED: May 03, 2012



RECEIVED: May 03, 2012

# **BILL BARRETT CORPORATION**

PRICKLY PEAR UNIT FEDERAL #5-9D-12-15, #5A-9D-12-15, #4-9D-12-15, #6A-9D-12-15, #3-9D-12-15, #12A-9D-12-15, #11-9D-12-15, #11A-9D-12-15 & #6-9D-12-15

LOCATED IN CARBON COUNTY, UTAH SECTION 9, T12S, R15E, S.L.B.&M.

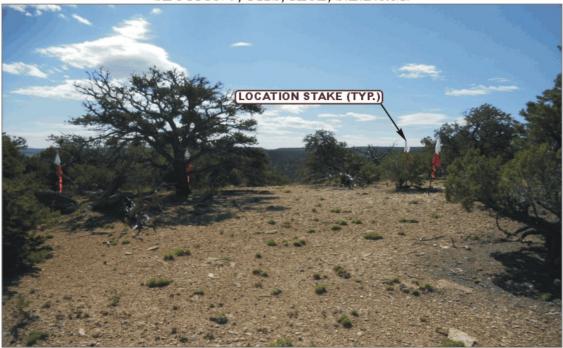


PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY

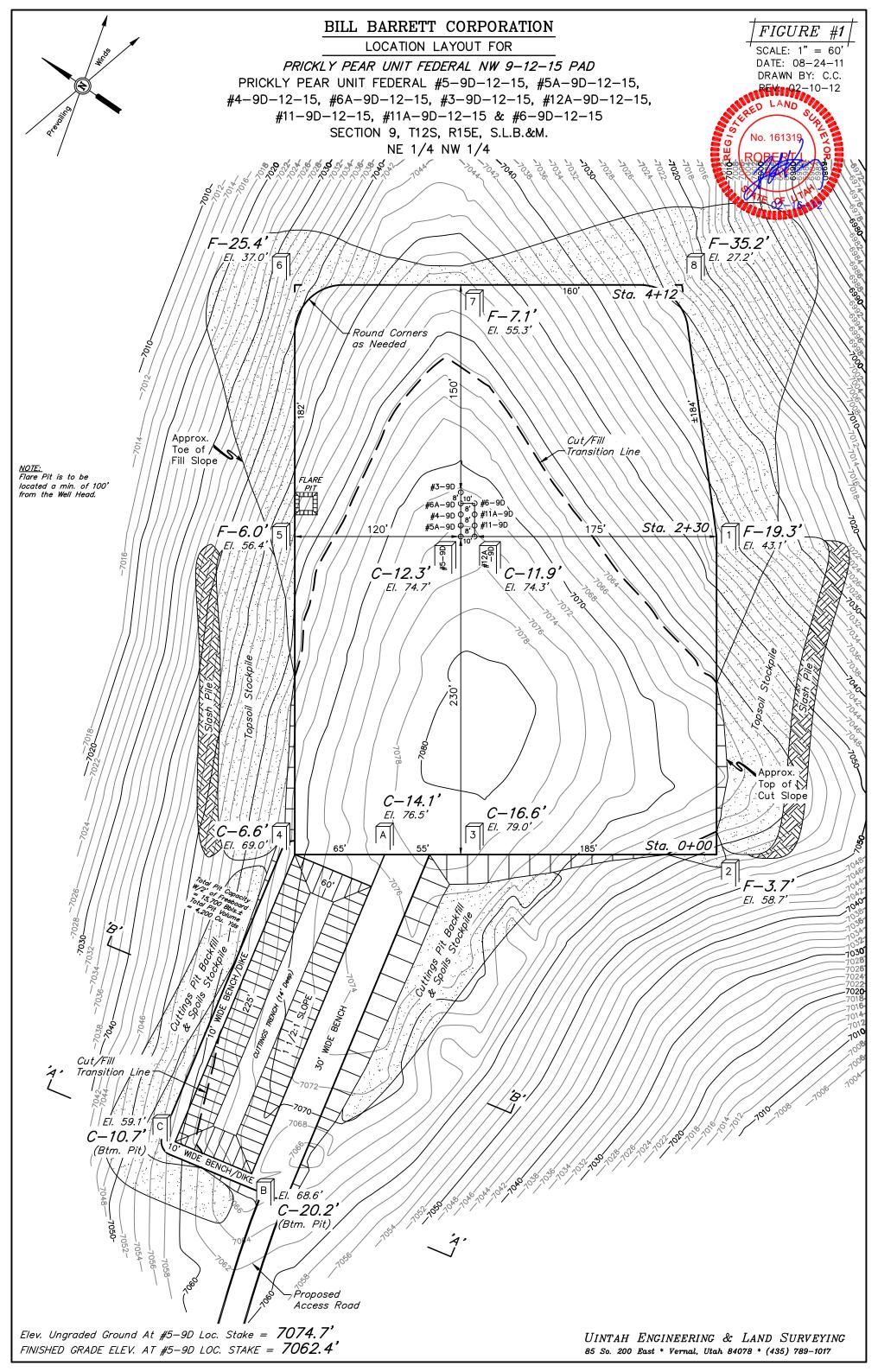


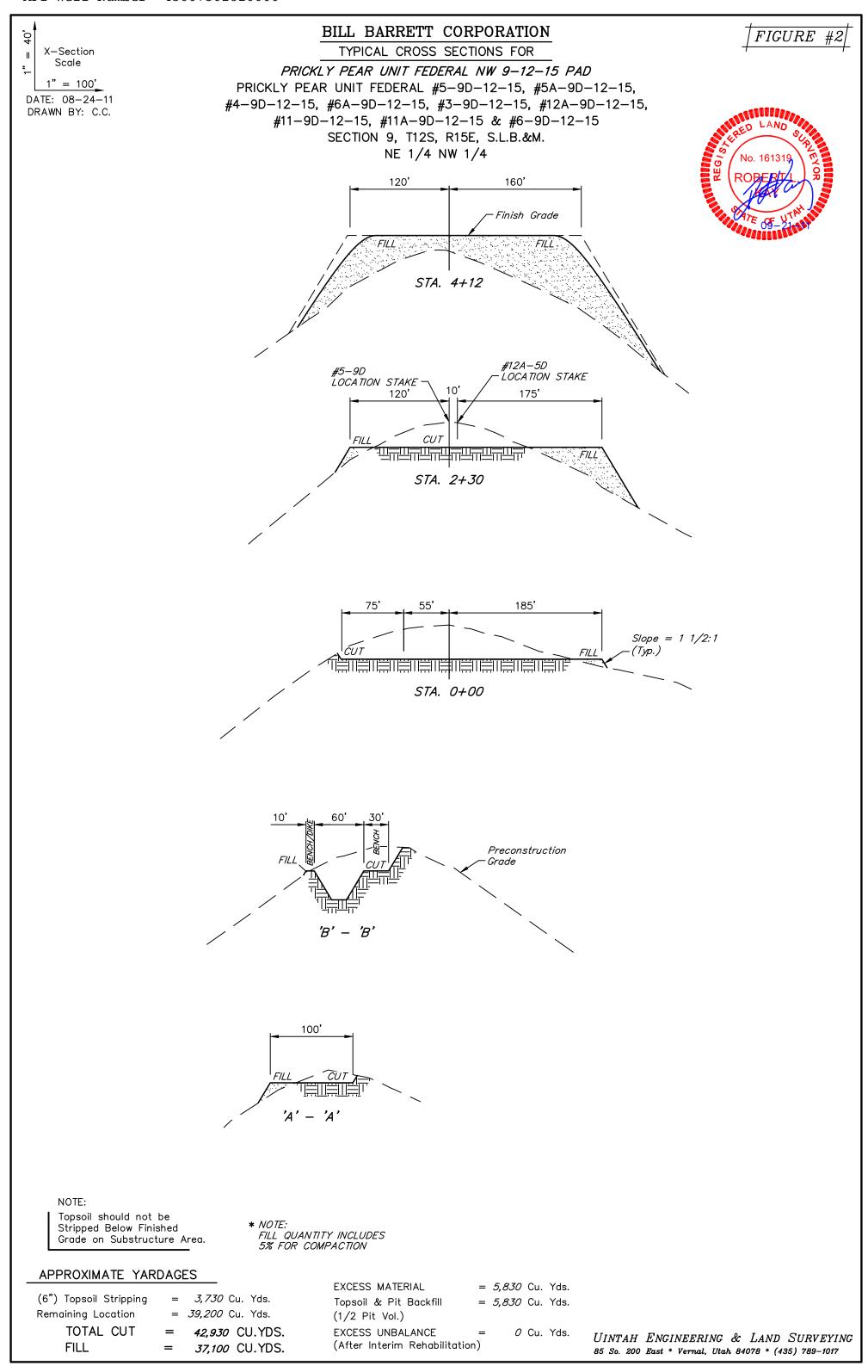
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 (435) 789-1017 \* FAX (435) 789-1813

LOCATION PHOTOS

MONTH DAY YEAR TAKEN BY: A.F. DRAWN BY: S.F. REVISED: 00-00-00

PHOTO





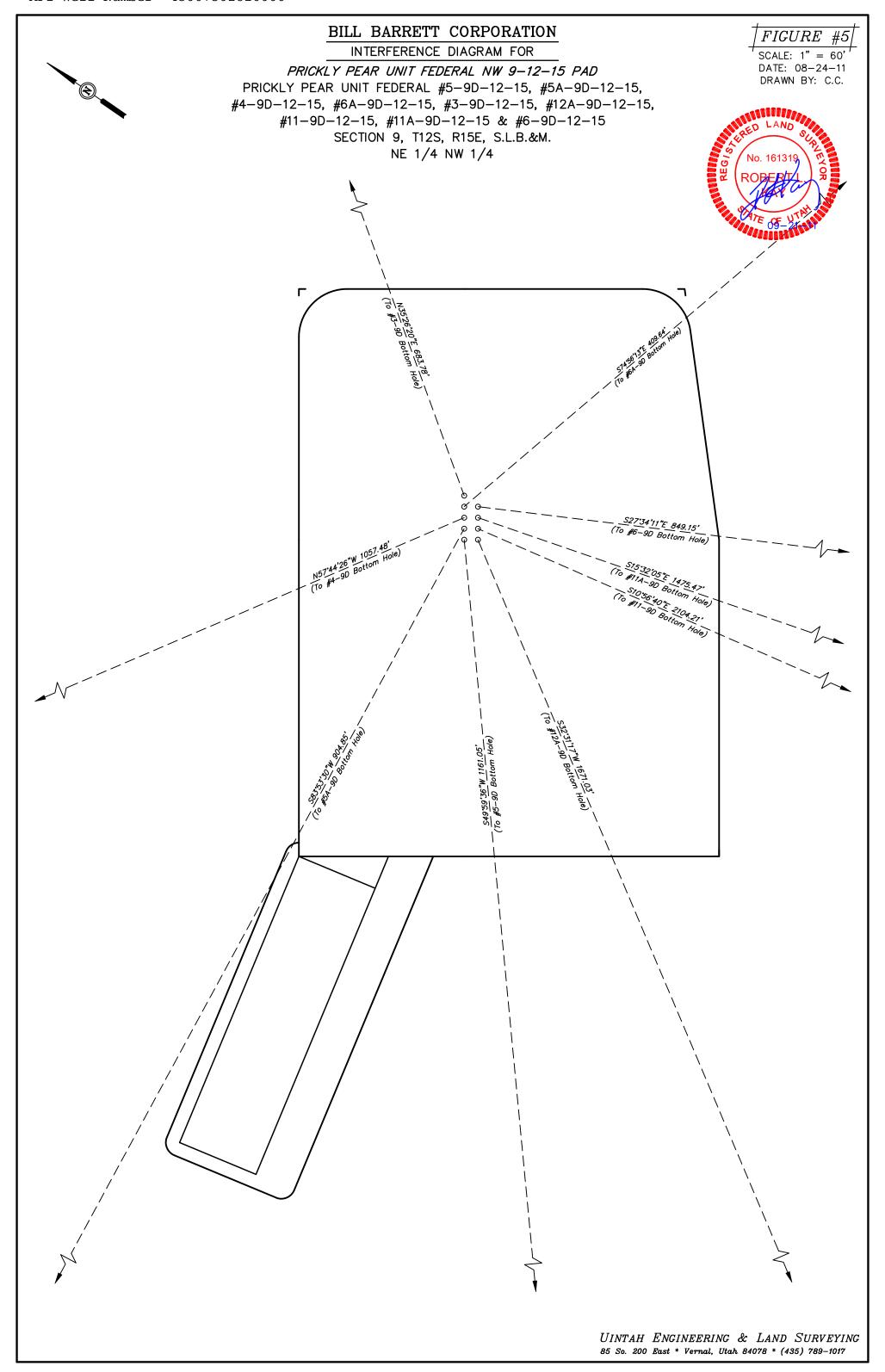
# API Well Number: 43007502820000 BILL BARRETT CORPORATION FIGURE #3 TYPICAL RIG LAYOUT FOR SCALE: 1" = 60'DATE: 08-24-11 PRICKLY PEAR UNIT FEDERAL NW 9-12-15 PAD DRAWN BY: C.C. PRICKLY PEAR UNIT FEDERAL #5-9D-12-15, #5A-9D-12-15, REV: 02-10-12 #4-9D-12-15, #6A-9D-12-15, #3-9D-12-15, #12A-9D-12-15, #11-9D-12-15, #11A-9D-12-15 & #6-9D-12-15 SECTION 9, T12S, R15E, S.L.B.&M. NE 1/4 NW 1/4 160' <u>NOTE:</u> Flare Pit is to be located a min. of 100' from the Well Head. PIPE RACKS 120' 175' DOG HOUSE TRAILER MUD TANKS MUD SHED TOILET 🗌 HOPPER POWER TOOLS FUEL 230, STORAGE TANK TRASH 65' 185' Proposed Access Road

UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECLAIMED AREA

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

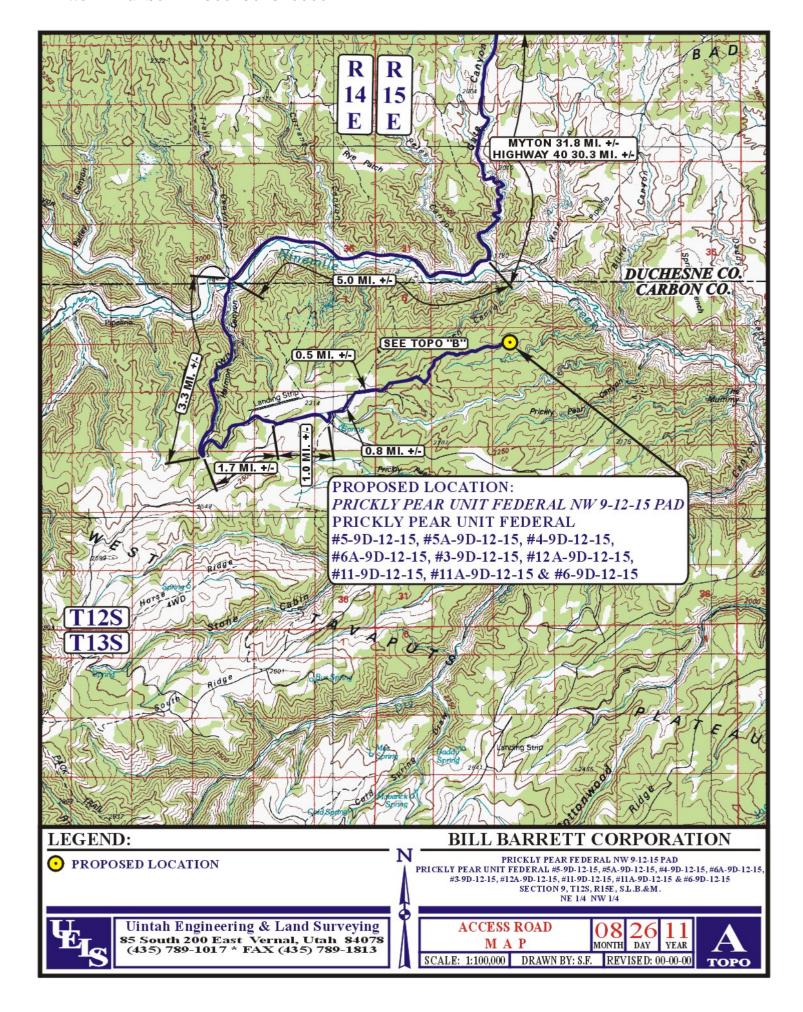


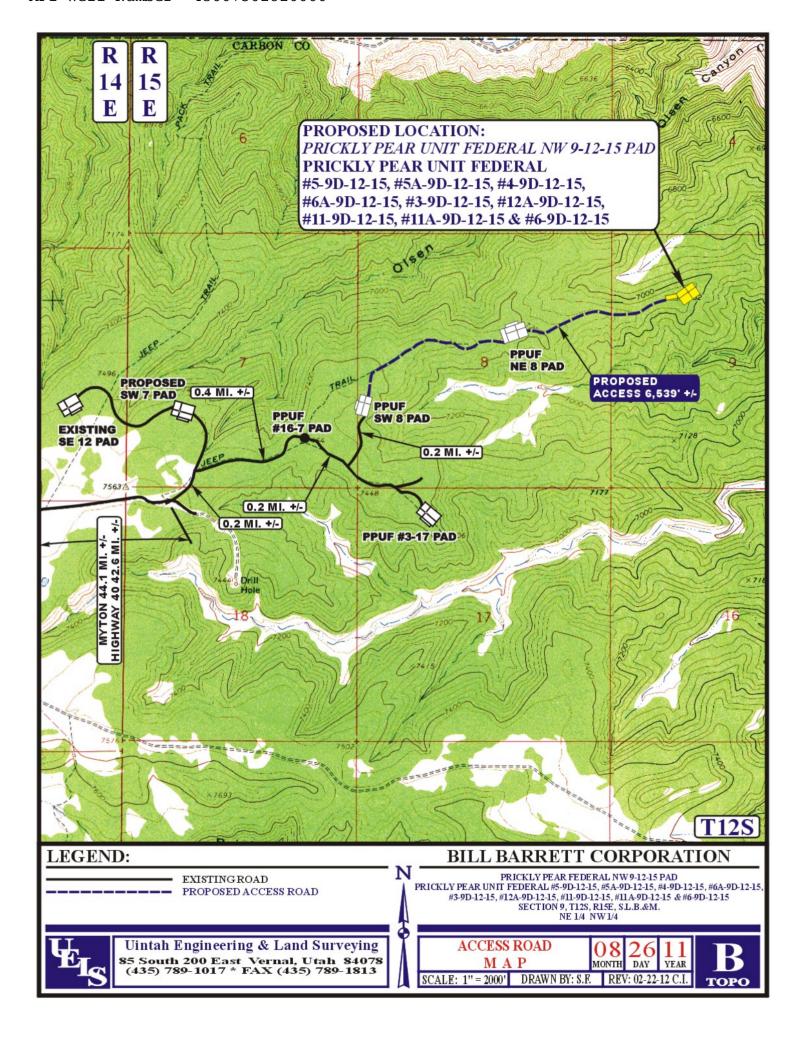
# BILL BARRETT CORPORATION \*\*PRICKLY PEAR UNIT FEDERAL NW 9-12-15 PAD\*\* PRICKLY PEAR UNIT FEDERAL #5-9D-12-15, #5A-9D-12-15, #4-9D-12-15, #6A-9D-12-15, #3-9D-12-15, #12A-9D-12-15, #11-9D-12-15, #11A-9D-12-15 & #6-9D-12-15 SECTION 9, T12S, R15E, S.L.B.&M.

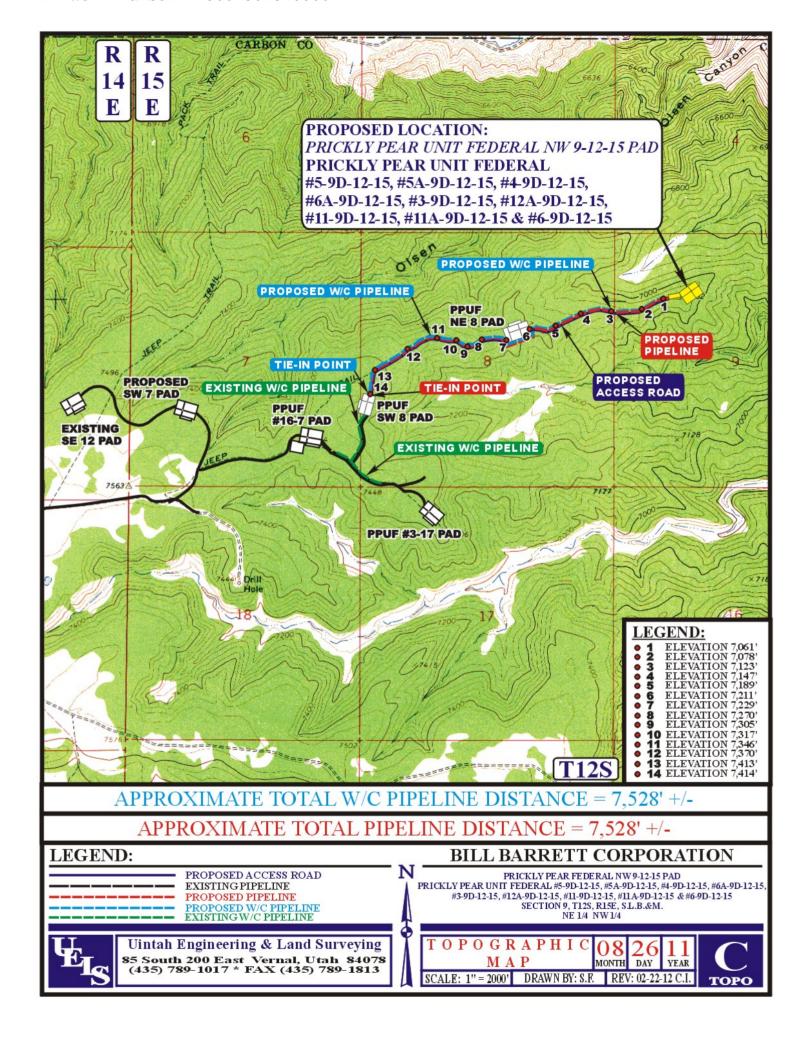
PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 28.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN NORTHWESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN NORTHEASTERLY, THEN EASTERLY, THEN NORTHEASTERLY APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST: TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE #16-7 PAD LOCATION AND AN EXISTING ROAD TO THE SOUTHEAST: PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE PPUF SW 8 TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1,162' TO THE PROPOSED PPUF SW 8 LOCATION AND THE BEGINNING OF THE PROPOSED ACCESS FOR THE PPUF NE 8 LOCATION TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 2,995' TO THE PROPOSED PPUF NE 8 LOCATION AND THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3,065' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.3 MILES.

RECEIVED: May 03, 2012







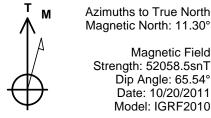
#### WELL DETAILS: Prickly Pear #11A-9D-12-15

Ground Level: 7062.00 +N/-S +E/-W Northing Easting Latittude Longitude 110° 14' 41.0604 W 0.00 0.00 533818.745 2352703.636 39° 47' 31.790 N

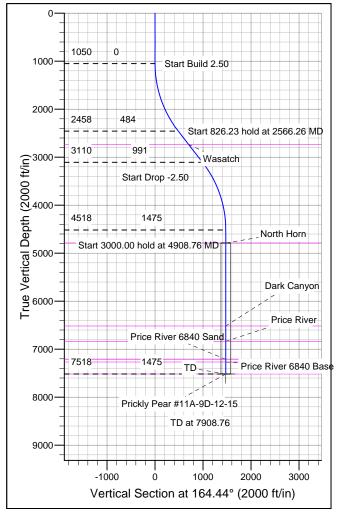
Sec	c MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2 1050.00	0.00	0.00	1050.00	0.00	0.00	0.00	0.00	0.00	
3	3 2566.26	37.91	164.44	2458.04	-465.81	129.75	2.50	164.44	483.54	
4	4 3392.49	37.91	164.44	3109.96	-954.81	265.95	0.00	0.00	991.16	
5	5 4908.76	0.00	0.00	4518.00	-1420.62	395.70	2.50	180.00	1474.70	
1 6	7908.76	0.00	0.00	7518.00	-1420.62	395.70	0.00	0.00	1474.70	Prickly Pear #11A-9D-12-15
										-

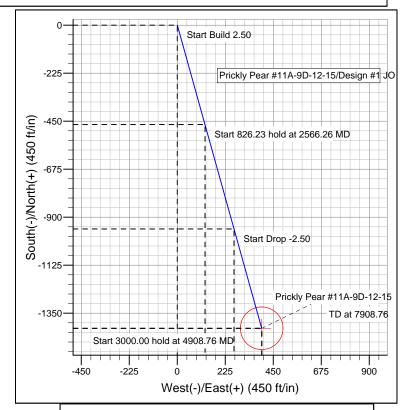
#### WELLBORE TARGET DETAILS

Name **TVD** +N/-S +E/-W Shape Prickly Pear #11A-9D-12-15 7518.00 -1420.62 395.70 Circle (Radius: 100.00)



Magnetic North: 11.30° Magnetic Field Strength: 52058.5snT Dip Angle: 65.54° Date: 10/20/2011 Model: IGRF2010





Slot

## FORMATION TOP DETAILS

TVDPath MDPath Formation 2733.00 2914.74 Wasatch 5178.76 4788.00 North Horn 6518.00 6908.76 Dark Canyon 6838.00 7228.76 Price River 7213.00 7603.76 Price River 6840 Sand Price River 6840 Base 7268.00 7658.76 7908.76 7518.00 TD

#### REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Prickly Pear #11A-9D-12-15, True North

Vertical (TVD) Reference: KB @ 7085.00ft (Original Well Elev)

Section (VS) Reference: Slot - (0.00N, 0.00E)

Measured Depth Reference: KB @ 7085.00ft (Original Well Elev)

Calculation Method: Minimum Curvature

# **BILL BARRETT CORP**

CARBON COUNTY, UT (NAD 27)
Prickly Pear NW 9-12-15 Pad
Prickly Pear #11A-9D-12-15

Wellbore #1

Plan: Design #1 JO

# **Standard Planning Report**

20 October, 2011

# **Bill Barrett Corp**

Planning Report

Database: Compass

Company: **BILL BARRETT CORP** 

Project: CARBON COUNTY, UT (NAD 27) Site: Prickly Pear NW 9-12-15 Pad Well: Prickly Pear #11A-9D-12-15

Wellbore: Wellbore #1

Design: Design #1 JO Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Prickly Pear #11A-9D-12-15 KB @ 7085.00ft (Original Well Elev) KB @ 7085.00ft (Original Well Elev)

Minimum Curvature

**Project** CARBON COUNTY, UT (NAD 27)

Map System: US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS) Geo Datum:

Map Zone: Utah Central 4302 Ground Level

Using geodetic scale factor

Prickly Pear NW 9-12-15 Pad

Northing: 533,817.401 ft Site Position: Latitude: 39° 47' 31.780 N From: Lat/Long Easting: 2,352,684.826ft Longitude: 110° 14' 41.3016 W

System Datum:

**Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 

0.80°

Well Prickly Pear #11A-9D-12-15

**Well Position** +N/-S 1.08 ft Northing: 533,818.745 ft Latitude: 39° 47' 31.790 N

+E/-W 18.83 ft Easting: 2,352,703.636 ft Longitude: 110° 14' 41.0604 W **Position Uncertainty** 0.00 ft Wellhead Elevation: ft Ground Level: 7,062.00 ft

Wellbore Wellbore #1 **Model Name** Magnetics Sample Date **Declination Dip Angle** Field Strength (°) (°) (nT) IGRF2010 10/20/2011 11.30 65.54 52.058

Design #1 JO Design

**Audit Notes:** 

Site

Version: Phase: **PLAN** Tie On Depth: 0.00

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 164.44

**Plan Sections** Measured Vertical Dogleg Build Turn Depth **Azimuth** Depth +N/-S Inclination +E/-W Rate Rate Rate **TFO** (°/100ft) (°/100ft) (°/100ft) (ft) (ft) (ft) (ft) **Target** (°) (°) (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,050.00 0.00 0.00 1,050.00 0.00 0.00 0.00 0.00 0.00 0.00 2,566.26 37.91 164.44 2.458.04 -465.81 129.75 2.50 2.50 0.00 164.44 37.91 3,109.96 265.95 0.00 0.00 3,392.49 164.44 -954.81 0.00 0.00 4,908.76 0.00 0.00 4,518.00 -1,420.62 395.70 2.50 -2.50 0.00 180.00 7,908.76 0.00 0.00 7,518.00 -1,420.62395.70 0.00 0.00 0.00 0.00 Prickly Pear #11A-9

# **Bill Barrett Corp**

**Planning Report** 

Database: Company: Project:

Site:

Compass

**BILL BARRETT CORP** 

CARBON COUNTY, UT (NAD 27) Prickly Pear NW 9-12-15 Pad

Well: Prickly Pear #11A-9D-12-15

Wellbore: Wellbore #1 Design: Design #1 JO

3,400.00

3,500.00

3,600.00

3,700.00

3,800.00

3,900.00

4,000.00

4.100.00

4,200.00

4,300.00

4,400.00

4,500.00

4,600.00

4,700.00

4,800.00

37.72

35.22

32.72

30.22

27.72

25.22

22.72

20.22

17.72

15.22

12.72

10.22

7.72

5.22

2.72

164.44

164.44

164.44

164.44

164.44

164.44

164.44

164.44

164.44

164.44

164.44

164.44

164.44

164.44

164.44

3,115.88

3,196.30 3.279.22

3,364.51

3.451.99

3,541.50

3,632.87

3.725.92

3,820.49

3,916.38

4,013.41

4,111.41

4,210.18

4.309.53

4,409.28

-959.25

-1,016.50

-1,070.32

-1,120.61

-1,167.26

-1,210.19

-1,249.32

-1.284.58

-1,315.89

-1,343.20

-1,366.45

-1,385.60

-1,400.62

-1.411.47

-1,418.14

267.19

283.13

298.12

312.13

325.12

337.08

347.98

357.80

366.52

374.13

380.61

385.94

390.12

393.15

395.00

995.76

1,055.20

1,111.06

1,163.26

1,211.69

1,256.26

1,296.88

1.333.48

1,365.98

1,394.33

1,418.47

1,438.35

1,453.94

1.465.20

1,472.12

2.50

2.50

2.50

2.50

2.50

2.50

2.50

2.50

2.50

2.50

2.50

2.50

2.50

2.50

2.50

Local Co-ordinate Reference:

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well Prickly Pear #11A-9D-12-15 KB @ 7085.00ft (Original Well Elev) KB @ 7085.00ft (Original Well Elev)

Minimum Curvature

anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	1.25	164.44	1,100.00	-0.53	0.15	0.55	2.50	2.50	0.00
1,200.00	3.75	164.44	1,199.89	-4.73	1.32	4.91	2.50	2.50	0.00
1,300.00	6.25	164.44	1,299.50	-13.12	3.66	13.62	2.50	2.50	0.00
1,400.00 1,500.00 1,600.00 1,700.00 1,800.00	8.75 11.25 13.75 16.25 18.75	164.44 164.44 164.44 164.44	1,398.64 1,497.11 1,594.74 1,691.32 1,786.69	-25.70 -42.42 -63.27 -88.20 -117.17	7.16 11.82 17.62 24.57 32.64	26.67 44.04 65.68 91.56 121.63	2.50 2.50 2.50 2.50 2.50	2.50 2.50 2.50 2.50 2.50	0.00 0.00 0.00 0.00 0.00
1,900.00	21.25	164.44	1,880.65	-150.11	41.81	155.83	2.50	2.50	0.00
2,000.00	23.75	164.44	1,973.03	-186.97	52.08	194.09	2.50	2.50	0.00
2,100.00	26.25	164.44	2,063.65	-227.68	63.42	236.35	2.50	2.50	0.00
2,200.00	28.75	164.44	2,152.35	-272.16	75.81	282.52	2.50	2.50	0.00
2,300.00	31.25	164.44	2,238.94	-320.32	89.22	332.52	2.50	2.50	0.00
2,400.00 2,500.00 2,566.26 2,600.00 2,700.00	33.75 36.25 37.91 37.91 37.91	164.44 164.44 164.44 164.44	2,323.27 2,405.18 2,458.04 2,484.66 2,563.57	-372.08 -427.33 -465.81 -485.78 -544.96	103.64 119.03 129.75 135.31 151.79	386.24 443.60 483.54 504.27 565.71	2.50 2.50 2.50 0.00 0.00	2.50 2.50 2.50 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,800.00 2,900.00 2,914.74 <b>Wasatch</b>	37.91 37.91 37.91	164.44 164.44 164.44	2,642.47 2,721.37 2,733.00	-604.15 -663.33 -672.06	168.28 184.76 187.19	627.15 688.58 697.64	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,000.00	37.91	164.44	2,800.27	-722.52	201.25	750.02	0.00	0.00	0.00
3,100.00	37.91	164.44	2,879.17	-781.70	217.73	811.46	0.00	0.00	0.00
3,200.00	37.91	164.44	2,958.07	-840.89	234.22	872.90	0.00	0.00	0.00
3,300.00	37.91	164.44	3,036.98	-900.07	250.70	934.33	0.00	0.00	0.00
3,392.49	37.91	164.44	3,109.96	-954.81	265.95	991.16	0.00	0.00	0.00

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

-2.50

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

# **Bill Barrett Corp**

**Planning Report** 

Database: Company:

Compass

**BILL BARRETT CORP** 

CARBON COUNTY, UT (NAD 27) Prickly Pear NW 9-12-15 Pad

Well: Wellbore:

Prickly Pear #11A-9D-12-15 Wellbore #1

Design:

Project:

Site:

Design #1 JO

Price River 6840 Base

0.00

0.00

0.00

0.00

TD - Prickly Pear #11A-9D-12-15

0.00

0.00

0.00

0.00

7,309.24

7,409.24

7,509.24

7,518.00

-1,420.62

-1,420.62

-1,420.62

-1,420.62

395.70

395.70

395.70

395.70

1,474.70

1,474.70

1,474.70

1,474.70

0.00

0.00

0.00

0.00

7,700.00

7,800.00

7,900.00

7,908.76

**Local Co-ordinate Reference:** 

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well Prickly Pear #11A-9D-12-15 KB @ 7085.00ft (Original Well Elev) KB @ 7085.00ft (Original Well Elev)

Minimum Curvature

Plai

ann	ed Survey										
	Measured Depth (ft)		nation °)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	4,900.00 4,908.76		0.22 0.00	164.44 0.00	4,509.24 4,518.00	-1,420.61 -1,420.62	395.69 395.70	1,474.69 1,474.70	2.50 2.50	-2.50 -2.50	0.00 0.00
	5,000.00 5,100.00 5,178.76		0.00 0.00 0.00	0.00 0.00 0.00	4,609.24 4,709.24 4,788.00	-1,420.62 -1,420.62 -1,420.62	395.70 395.70 395.70	1,474.70 1,474.70 1,474.70	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	North Horr	1									
	5,200.00 5,300.00		0.00 0.00	0.00 0.00	4,809.24 4,909.24	-1,420.62 -1,420.62	395.70 395.70	1,474.70 1,474.70	0.00 0.00	0.00 0.00	0.00 0.00
	5,400.00 5,500.00 5,600.00 5,700.00 5,800.00		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,009.24 5,109.24 5,209.24 5,309.24 5,409.24	-1,420.62 -1,420.62 -1,420.62 -1,420.62 -1,420.62	395.70 395.70 395.70 395.70 395.70	1,474.70 1,474.70 1,474.70 1,474.70 1,474.70	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	5,900.00 6,000.00 6,100.00 6,200.00 6,300.00		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,509.24 5,609.24 5,709.24 5,809.24 5,909.24	-1,420.62 -1,420.62 -1,420.62 -1,420.62 -1,420.62	395.70 395.70 395.70 395.70 395.70	1,474.70 1,474.70 1,474.70 1,474.70 1,474.70	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	6,400.00 6,500.00 6,600.00 6,700.00 6,800.00		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,009.24 6,109.24 6,209.24 6,309.24 6,409.24	-1,420.62 -1,420.62 -1,420.62 -1,420.62 -1,420.62	395.70 395.70 395.70 395.70 395.70	1,474.70 1,474.70 1,474.70 1,474.70 1,474.70	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	6,900.00 6,908.76		0.00	0.00 0.00	6,509.24 6,518.00	-1,420.62 -1,420.62	395.70 395.70	1,474.70 1,474.70	0.00 0.00	0.00 0.00	0.00 0.00
	7,000.00 7,100.00 7,200.00	on	0.00 0.00 0.00	0.00 0.00 0.00	6,609.24 6,709.24 6,809.24	-1,420.62 -1,420.62 -1,420.62	395.70 395.70 395.70	1,474.70 1,474.70 1,474.70	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	7,228.76		0.00	0.00	6,838.00	-1,420.62	395.70	1,474.70	0.00	0.00	0.00
	7,300.00 7,400.00 7,500.00 7,600.00 7,603.76		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6,909.24 7,009.24 7,109.24 7,209.24 7,213.00	-1,420.62 -1,420.62 -1,420.62 -1,420.62 -1,420.62	395.70 395.70 395.70 395.70 395.70	1,474.70 1,474.70 1,474.70 1,474.70 1,474.70	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	Price Rive	6840	Sand		,	,		,			
	7,658.76		0.00	0.00	7,268.00	-1,420.62	395.70	1,474.70	0.00	0.00	0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

# **Bill Barrett Corp**

**Planning Report** 

Database: Compass Company:

BILL BARRETT CORP

CARBON COUNTY, UT (NAD 27) Prickly Pear NW 9-12-15 Pad Prickly Pear #11A-9D-12-15

Wellbore: Wellbore #1 Design #1 JO Design:

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Prickly Pear #11A-9D-12-15 KB @ 7085.00ft (Original Well Elev)

KB @ 7085.00ft (Original Well Elev)

Minimum Curvature

Formations	
------------	--

Project:

Site:

Well:

ronnations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,914.74	2,733.00	Wasatch		0.00	
	5,178.76	4,788.00	North Horn		0.00	
	6,908.76	6,518.00	Dark Canyon		0.00	
	7,228.76	6,838.00	Price River		0.00	
	7,603.76	7,213.00	Price River 6840 Sand		0.00	
	7,658.76	7,268.00	Price River 6840 Base		0.00	
	7,908.76	7,518.00	TD		0.00	

#### **SURFACE USE PLAN**

# BILL BARRETT CORPORATION Prickly Pear Unit Federal NW Sec. 9-12-15 Pad SUP Carbon County, UT

Prickly Pear Unit Federal 3-9D-12-15	Prickly Pear Unit Federal 4-9D-12-15
NENW, 1210' FNL, 1642' FWL, Sec. 9, T12S-R15E (surface hole)	NENW, 1219' FNL, 1629' FWL, Sec. 9, T12S-R15E (surface hole)
NENW, 651' FNL, 2026' FWL, Sec. 9, T12S-R15E (bottom hole)	NWNW, 659' FNL, 722' FWL, Sec. 9, T12S-R15E (bottom hole)
Prickly Pear Unit Federal 5-9D-12-15	Prickly Pear Unit Federal 5A-9D-12-15
NENW, 1228' FNL, 1616' FWL, Sec. 9, T12S-R15E (surface hole)	NENW, 1224' FNL, 1622' FWL, Sec. 9, T12S-R15E (surface hole)
SWNW, 1979' FNL, 743' FWL, Sec. 9, T12S-R15E (bottom hole)	SWNW, 1324' FNL, 725' FWL, Sec. 9, T12S-R15E (bottom hole)
Prickly Pear Unit Federal 6-9D-12-15	Prickly Pear Unit Federal 6A-9D-12-15
NENW, 1223' FNL, 1641' FWL, Sec. 9, T12S-R15E (surface hole)	NENW, 1215' FNL, 1635' FWL, Sec. 9, T12S-R15E (surface hole)
NESW, 1974' FNL, 2051' FWL, Sec. 9, T12S-R15E (bottom hole)	SENW, 1319' FNL, 2033' FWL, Sec. 9, T12S-R15E (bottom hole)
Prickly Pear Unit Federal 11-9D-12-15	Prickly Pear Unit Federal 11A-9D-12-15
NENW, 1232' FNL, 1628' FWL, Sec. 9, T12S-R15E (surface hole)	NENW, 1227' FNL, 1635' FWL, Sec. 9, T12S-R15E (surface hole)
NESW, 1989' FSL, 2055' FWL, Sec. 9, T12S-R15E (bottom hole)	NESW, 2638' FSL, 2061' FWL, Sec. 9, T12S-R15E (bottom hole)
Prickly Pear Unit Federal 12A-9D-12-15	
NENW, 1236' FNL, 1622' FWL, Sec. 9, T12S-R15E (surface hole)	
NWSW, 2645' FSL, 754' FWL, Sec. 9, T12S-R15E (bottom hole)	

This is a new pad with a total of NINE directional wells proposed to be drilled in one phase. The onsite for this pad took place on October  $11^{th}$  and  $12^{th}$ , 2011.

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

# 1. Existing Roads:

- a. The proposed pad is located approximately 46.3 miles from Myton, Utah. Maps reflecting directions to the proposed pad are included (see Topographic maps A and B).
- b. The use of roads under State and County Road Department maintenance is necessary to access the Prickly Pear Unit. However, an encroachment permit is not anticipated as there are no upgrades to the State or County road systems proposed at this time.
- No topsoil stripping would occur as there are no improvements proposed to existing State, County or main BLM access roads.
- d. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a scraper and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- e. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- f. To address safety-related traffic concerns, drivers and rig crews would be advised of the hazards to recreational traffic along the existing and proposed access roads, as well as hazards present due to blind corners, cars parked on the road, pedestrian traffic, and mountain bikers. In addition, appropriate signs would be erected to warn non-project personnel about traffic hazards associated with project-related activities and during times of rig moves, when there is heavy equipment, traffic may be controlled on sections of roads. Traffic would be controlled using roadside signs, flagmen, and barricades as appropriate.
- g. Dust suppression and monitoring would be implemented where necessary and as prescribed by the BLM.

Bill Barrett Corporation Surface Use Plan Prickly Pear NW 9-12-15 Pad Carbon County, Utah

> h. An off-lease federal right-of-way for the access road and utility corridor is not anticipated at this time since existing roads are being utilized into the Prickly Pear Unit area. All new construction would be within the Unit.

#### 2. Planned Access Road:

- a. From the existing Interplanetary airstrip road, BBC would traverse east on an existing access road, pass through the existing Prickly Pear SE 7 well pad then turn north and pass through the existing Prickly Pear SW 8 well pads. From there, approximately 6539' ft of proposed new road would be required within the Prickly Pear Unit (see Topographic Map B). A road design plan is not anticipated at this time. See 12.d for disturbance totals.
- b. The <u>new</u> proposed access road would be co-located by pipeline(s) and the requested corridor disturbance would be 100 ft with a short-term corridor disturbance of 80 reclaimed to a long-term corridor of 30 ft. A portion of the access road is not co-located by pipeline due to the pipeline being re-directed along the outside of the future proposed NE 8 pad (see topo C for pipeline route).
- c. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- d. Intervisible turnouts would be constructed, where necessary and as topographic conditions allow, in order to improve traffic safety. A maximum grade of 10 percent would be maintained with minimum cuts and fills, as necessary, to access the well pad.
- e. New road construction and improvements of existing roads would typically require the use of motorgraders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private, State of Utah, or federal lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Adequate drainage structures would be incorporated and culverts, with a minimum diameter of 18 inches, would be installed as necessary.
- i. No gates or cattle guards are anticipated at this time.
- j. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
- k. All access roads and surface disturbing activities would conform to the appropriate standard, no higher than necessary, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: <u>Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition Revised 2007</u>. BBC would be responsible for all maintenance of the access road.

Bill Barrett Corporation Surface Use Plan Prickly Pear NW 9-12-15 Pad Carbon County, Utah

## 3. <u>Location of Existing Wells (see One-Mile Radius Map):</u>

 Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:

i. water wells none ii. injection wells none iii. disposal wells none iv. drilling wells none temp shut-in wells v. none vi. producing wells seventeen vii. abandoned wells none

#### 4. Location of Production Facilities:

- a. Each proposed well would have its own meter run and separator. Proposed wellheads and christmas trees may be contained below location grade in pre-cast concrete trenches. All wellheads associated with the drilling operations for this pad may be contained in the same trench measuring approximately 26 ft wide, 10 ft deep, and 56 ft long (# wells x 8 ft + 16 ft for two end pieces).
   Drawings of below ground cellars can be provided by BBC upon request
- b. Tank facilities for this pad would be a centralized tank battery facility (CTB) that is co-located on this pad and liquids would be pumped to the SE 7 pad CTB then on to the Prickly Pear 4-18 CTB/well pad located in the NWNW, Sec. 18, 12S-15E and trucked from that location. Surface facilities for wells associated with this pad would consist of up to eight 500 BBL or 625 BBL production tanks depending on PA status, one tank the same size as the production tanks each for non-PA wells, one 9x15.5 300 BBL blow down tank, one line heater, multiple chemical tanks, two glycol solar pumps, multiple chemical solar pumps, multiple 500gl methanol tanks and solar pumps, and a possible gas lift compressor measuring 20'x8'4". As all of the wells on this pad are outside of the PA, production would be combined in non-PA tanks while production on the NE 8 CTB and for PA wells flowing into the CTB on the SE 7 CTB, would be combined in a separate set of tanks. Figure 4 reflects facility plans and is attached. When the Prickly Pear NE 8 well pad is built and has producing wells, facilities from this pad may be move west on to the NE 8 pad.
- c. CTBs would be surrounded by a secondary containment berm of sufficient capacity to contain the 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the CTB or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil. Any variances from this would be submitted via a sundry notice. BBC requests permission to install the necessary production/operation facilities with this application.
- d. Most wells would be fitted with plunger lift systems to assist liquid production. However, pump jacks may be used if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks would be small (75 horsepower or less), natural gas-fired internal combustion engines.
- e. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3 and any variances would be included with this submittal or submitted via sundry notice.
- f. A combustor exists on the Prickly Pear 4-18 well pad/CTB and one is planned for on this pad. A combustor ranges from 24 inches to 48 inches wide and is approximately 10 ft -27 ft tall.

Bill Barrett Corporation Surface Use Plan Prickly Pear NW 9-12-15 Pad Carbon County, Utah

Combustor placement would be on existing disturbance and would not be closer than 100 ft to any tank or wellhead(s).

- g. A gas gathering pipeline (up to 12 inch diameter) and one liquids lines (up to 6 inch diameter), approximately 7528 feet in length, are associlated with this application and are being applied for at this time (see Topographic Map C). All lines would leave the west end of the pad and would tie into the SW 8 lines at this pad and would transport the liquids to the 4-18 well pad/CTB. Approximately 958 feet of pipeline is not co-located with the road as it is redirected alongside the proposed future location of the NE 8 pad. Disturbances for the new co-located portion and the pipeline are included in 12.d below.
- h. The proposed new gas pipeline would be constructed of steel while the liquids lines would be constructed of steel, polyethylene, or fiberglass. The gas pipeline and liquids line would be buried, where soil conditions permit, within the proposed co-located access road and pipeline corridor.
- Although BBC intends on burying the new proposed pipelines, burial of pipelines would depend upon the site-specific topographic and soil conditions and operational requirements. If bedrock was encountered, BBC would contact the Authorized Officer at the time of construction to discuss further.
- j. BBC intends on stringing the pipeline on the surface, welding many joints into long lengths, dragging the long lengths into position and then completing a final welding pass to join the long lengths together. The welded joints would either remain on the surface or would be placed within the trench, depending on the scenario. BBC intends on connecting the pipeline together utilizing conventional welding technology.
- k. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- To limit erosion potential, backfill over pipeline trenches would be compacted so as not to extend
  above the original ground level after the fill has settled. Wheel or other methods of compacting
  backfill would be utilized as practicably feasible to reduce trench settling and water channeling.
- m. All permanent above-ground structures would be painted a flat, non-reflective Olive Black to match the standard environmental colors. These structures would be painted the designated color at the time of installation or within 6 months of being located on site. Facilities that are required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- n. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any changes to facilities proposed within this surface use plan would be depicted on the site security diagram submitted.
- The site would require periodic maintenance to ensure that drainages are kept open and free of
  debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to
  adjacent areas.

# 5. <u>Location and Type of Water Supply:</u>

 Bill Barrett Corporation would use water consistent with approvals granted by the Utah State Engineer's Office under:

Application Number 90-1866, expires December 31, 2020 Application Number 90-1868, expires April 25, 2012 Application Number 90-1869, expires April 25, 2012 Application Number 90-1870, expires October 12, 2012 Application Number 90-1874, expires January 5, 2013 Application Number 90-4, expires December 31, 2015 Application Number 90-5, expires January 31, 2018

Bill Barrett Corporation Surface Use Plan Prickly Pear NW 9-12-15 Pad Carbon County, Utah

- Water use for this location would most likely be diverted from Nine Mile Creek, the N¼ of Section 3, T12S-R14E. Bobtail trucks would haul the water, traveling Prickly Pear road to Harmon Canyon, traveling north to this point of diversion.
- c. Water use would vary in accordance with the formations to be drilled but would average approximately 1 acre-foot (7,758 barrels) during drilling operations and 1 acre-foot (7,758 barrels) during completion operations.

#### 6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be taken out of the Prickly Pear Unit.
- c. If any additional gravel is required, it would be obtained from SITLA materials permits, federal BBC locations within the Prickly Pear unit or from private sources.

## 7. <u>Methods of Handling Waste Disposal:</u>

 All wastes associated with this application would be contained and disposed of utilizing approved facilities.

#### Closed Loop Drilling System

- b. BBC intends to employ a closed loop drilling system in which drilling fluids and cuttings would be thoroughly processed such that the separated cuttings are relatively dry. The cuttings would be stored on location in either secured piles or in the 225 ft x 60 ft cuttings trench.
- c. The cuttings trench would not be lined. Three sides of the trench would be fenced before drilling starts and the fourth side would be fenced at the time drilling is completed on the last well on the pad and shall remain until cuttings trench has been reclaimed.
- d. Upon completion of drilling, the cuttings would be tested and further processed as necessary to meet standards for burial on site or other BLM approved uses such as a media for road surfacing or growing media for reclamation.

# Conventional or Semi-Closed Loop Drilling System

- e. In the event closed loop drilling is not employed, a conventional or semi-closed loop system would be used where a small amount of fluid is retained in the cuttings and the cuttings are placed in the reserve pit. The reserve pit would also store water to make up losses and store any excess drilling fluids. Reserve pits would be constructed with an impermeable liner so as to prevent releases. The pit liner would overlap the pit walls and be anchored with soil and/or rocks to hold it in place. No trash, scrap pipe, etc. that could puncture the liner would be disposed of in the pit and a minimum of 2 ft of freeboard would be maintained in the pit at all times. Reserve pits would be constructed and maintained according to BLM or UDOGM requirements as appropriate.
- f. Three sides of the reserve pit would be fenced before drilling starts and the fourth side would be fenced at the time drilling is completed on the last well on the pad and shall remain until the pit is dry.
- g. Any hydrocarbons floating on the surface of the reserve pit would be removed as soon as possible after drilling and completion operations are finished. In some cases, the reserve pit may be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

# Completion Pit

h. Where closed loop drilling is employed, the cuttings trench disturbed area would typically also be used to store water for completion activities. The completion pit would be constructed with an

Bill Barrett Corporation Surface Use Plan Prickly Pear NW 9-12-15 Pad Carbon County, Utah

impermeable liner to prevent releases and would be fenced and constructed and maintained according to BLM or UDOGM requirements.

#### <u>Other</u>

- Produced fluids from the wells other than water would be decanted into steel test tanks until such
  time as construction of production facilities is completed. Produced water may be used in further
  drilling and completion activities, evaporated in the pit or would be hauled to a state approved
  disposal facility.
- j. After initial clean-up and based on volumes, BBC would install a tank (maximum size 400 barrel capacity) to contain produced waste water. After first production, produced wastewater would be confined to tanks within the CTB for a period not to exceed ninety (90) days. Thereafter, produced water would be used in further drilling and completion activities or hauled to a State approved disposal facility.
- k. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- m. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- n. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Carbon, Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- Sanitary waste equipment and trash bins would be removed from the WTP Project Area upon
  completion of access road or pipeline construction; following drilling and completion operations at
  an individual well pad; when worker housing is no longer needed; or as required.
- p. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the West Tavaputs Project area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is possible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed

Bill Barrett Corporation Surface Use Plan Prickly Pear NW 9-12-15 Pad Carbon County, Utah

to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

q. Flare lines would be directed so as to avoid damage to surrounding vegetation, adjacent rock faces, or other resources, and as required by regulations. Flare lines would be in place on all well locations. In the event it becomes necessary to flare a well, a deflector and/or directional orifice would also be used to safeguard both personnel and adjacent natural rock faces.

#### 8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- Storage yards for tubulars and other equipment and temporary housing areas, located on BBC surface, would be utilized.
- c. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. Active drilling locations could include up to five single wide mobile homes or fifth wheel campers/trailers.

#### 9. Well Site Layout:

- a. Each well would be properly identified in accordance with 43 CFR 3162.6
- b. The pad with a co-located CTB, has been staked at its maximum size of 414 x 305 ft with a 225 ft x 60 ft cuttings trench/reserve pit/completion pit outboard of the pad. The location layout and cross section diagrams are enclosed. For disturbance totals, see 12.d below.
- c. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- d. Proposed wellheads and christmas trees may be contained below location grade in pre-cast concrete trenches.
- e. The cuttings trench or reserve pit would be fenced on three sides during drilling and on the fourth side immediately after the removal of the drilling rig. In the event closed loop drilling is employed, the cuttings trench would be removed or stockpiled on one edge of the trench and the area would be used for a completion pit during completion operations.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. Construction of the well pad would take from 1 to 3 weeks depending on the features at the particular site.
- i. Dust suppression may be implemented if necessary to minimize the amount of fugitive dust.

# 10. Plan for Restoration of the Surface:

Interim Reclamation

Bill Barrett Corporation Surface Use Plan Prickly Pear NW 9-12-15 Pad Carbon County, Utah

- Portions of the disturbed area within a construction ROW or portions of well pads not needed for production would be reclaimed according to specifications of the BLM as appropriate.
- b. Prior to interim reclamation activities, all solid wastes and refuse would be removed and placed at approved landfills. The portions of the well pad or access and pipeline corridor not needed for production would be re-contoured to promote proper drainage, salvaged topsoil would be replaced, and side slopes would be ripped and disked on the contour. Following site preparation, reseeding would be completed during either the spring or fall planting season, when weather conditions are most favorable. Seed mixtures for reclaimed areas would be site-specific and would require approval by the BLM. BBC would apply and meet BLM's Green River District Reclamation Standards, where practicable.
- c. The operator would control noxious weeds along access road use authorizations, pipeline route authorizations, well sites or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate county extension office. On BLM administered land it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- d. Following interim reclamation, access roads (including roads co-located with pipeline) would be reduced to approximately 30 feet of disturbance. Roads leading to well sites that would not have surface production equipment would be designed and reclaimed in a way that minimizes impacts to the visual character of the host lands.
- e. Weather permitting, earthwork for interim reclamation would be completed within 6 months of completion of the final well on the pad or plugging and would continue until satisfactory revegetation cover is established. Inter-seeding (i.e. seeding into existing vegetation), secondary seeding, or staggered seeding may be used to accomplish revegetation objectives. During rehabilitation of areas in important wildlife habitat, provisions would be made for the establishment of native browse and forb species. Follow-up seeding or corrective erosion control measures would occur on areas where initial reclamation efforts are unsuccessful, as determined by the BLM or the appropriate surface management agency.

#### Dry Hole/Final Reclamation

- f. All disturbed lands associated with this project, including the pipelines, access roads, water management facilities, etc. would be expediently reclaimed and reseeded in accordance with the reclamation plan and any pertinent site-specific COAs.
- g. When a well is to be plugged and abandoned, BBC would submit a Notice of Intent to Abandon (NOA) to the BLM or UDOGM as appropriate. The BLM or UDOGM would then attach the appropriate surface rehabilitation COAs for the well pad, and as appropriate, for the associated access road, pipeline, and ancillary facilities. During plugging and abandonment, all structures and equipment would be removed from the well pad. Backfilling, leveling, and re-contouring would then be performed according to the BLM or UDOGM order.
- h. Any mulch used by BBC would be weed-free and free from mold, fungi, or noxious weeds. Mulch may include native hay, small grain straw, wood fiber, live mulch, cotton, jute, synthetic netting or rock.
- i. BBC would reshape disturbed channel beds to their approximate original configuration.
- j. Reclamation of abandoned roads may include re-shaping, re-contouring, re-surfacing with topsoil, installation of water bars, and seeding on the contours. Road beds, well pads, and other compacted areas would be ripped to a depth of approximately 1 foot on 1.5 foot centers to reduce compaction prior to spreading the topsoil across the disturbed area. Stripped vegetation would be spread over the disturbance area for nutrient recycling, where practical. Additional erosion control measures (e.g. fiber matting) and road barriers to discourage travel may be constructed if appropriate.

Bill Barrett Corporation Surface Use Plan Prickly Pear NW 9-12-15 Pad Carbon County, Utah

Graveled roads, well pads, and other sites would be stripped of usable gravel prior to ripping as deemed necessary. Culverts, cattleguards, and signs would be removed as roads are abandoned.

k. BBC will follow their field wide reclamation plan and the site specific plans will be submitted within 90 days of APD approval in a sundry to the appropriate field office.

# 11. Surface and Mineral Ownership:

- a. Surface ownership Federal under the management of the Bureau of Land Management Price Field Office, 125 South 600 West, Price Utah 84078; (435) 636-3600.
- b. Mineral ownership -

Federal under the management of the Bureau of Land Management – Price Field Office, 125 South 600 West, Price Utah 84078; (435) 636-3600.

State under the management of the state of Utah – 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84116; (801) 538-5340.

## 12. Other Information:

- Montgomery Archaeological Consultants conducted a cultural resource inventory for this pad/CTB, access and pipeline under MOAC 11-254, dated 9/16/2011.
- BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs within the WTP Project Area;
  - No firearms within the WTP Project Area;
  - No littering within the WTP Project Area;
  - No alcohol within the WTP Project Area;
  - Smoking within the WTP Project Area would only be allowed in off-operator active
    locations or in specifically designated smoking areas. All cigarette butts would be placed in
    appropriate containers and not thrown on the ground or out windows of vehicles; personnel
    and contractors would abide by all fire restriction orders;
  - Campfires or uncontained fires of any kind would be prohibited within the WTP Project Area;
  - Portable generators used in the WTP Project Area would have spark arrestors.
- All disturbances are within the Prickly Pear unit: Surface and bottom hole disturbances occur on lease UTU-73006 and UTU-01519B.

	Short Term	Long Term
Proposed Estimated Pad Disturbance	5.590	1.822
Proposed Estimated PL Disturbance	.88	.04
Proposed Estimated Co-Located Road/PL Disturbance	12.066	4.525
Total Proposed Estimated	18.536 Acres	6.391 acres

#### **OPERATOR CERTIFICATION**

#### Certification:

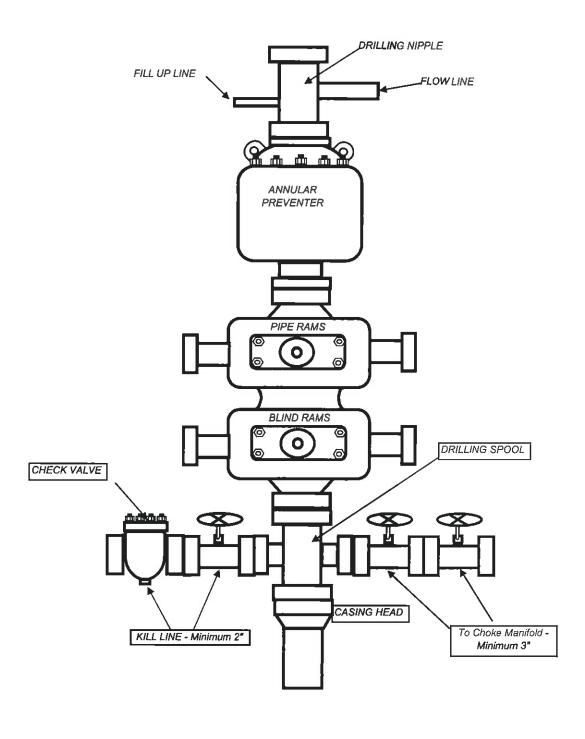
I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

Executed this Name: Position Title: Permit Analyst 1099 18th Street, Suite 2300, Denver, CO 80202 Address: Telephone: 303-312-8115 Field Representative Danny Rasmussen Address: 1820 W. Hwy 40, Roosevelt, UT 84066 435-724-6999 Telephone: drasmussen@billbarrettcorp.com E-mail:

Brady Riley, Permit Analyst

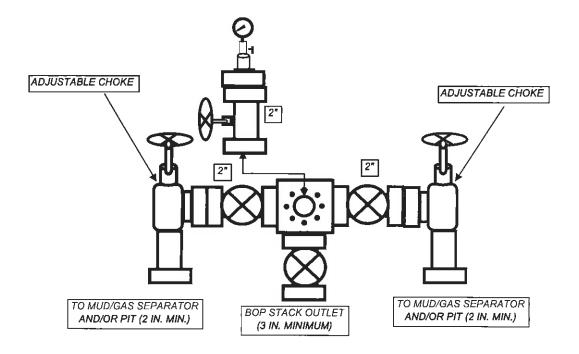
## **BILL BARRETT CORPORATION**

#### TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER



## **BILL BARRETT CORPORATION**

### TYPICAL 3,000 p.s.i. CHOKE MANIFOLD





April 17, 2012

Ms. Diana Mason State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, Utah 84114-5801

RE: Directional Drilling R649-3-11

Prickly Pear Unit Federal #11A-9D-12-15

SHL: 1227' FNL & 1635' FWL, NENW 9-T12S-R15E BHL: 2638' FSL & 2061' FWL, NESW 9-T12S-R15E

Carbon County, Utah

#### Dear Ms. Mason:

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill ("APD") regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the "Exception to Location and Siting of Wells."

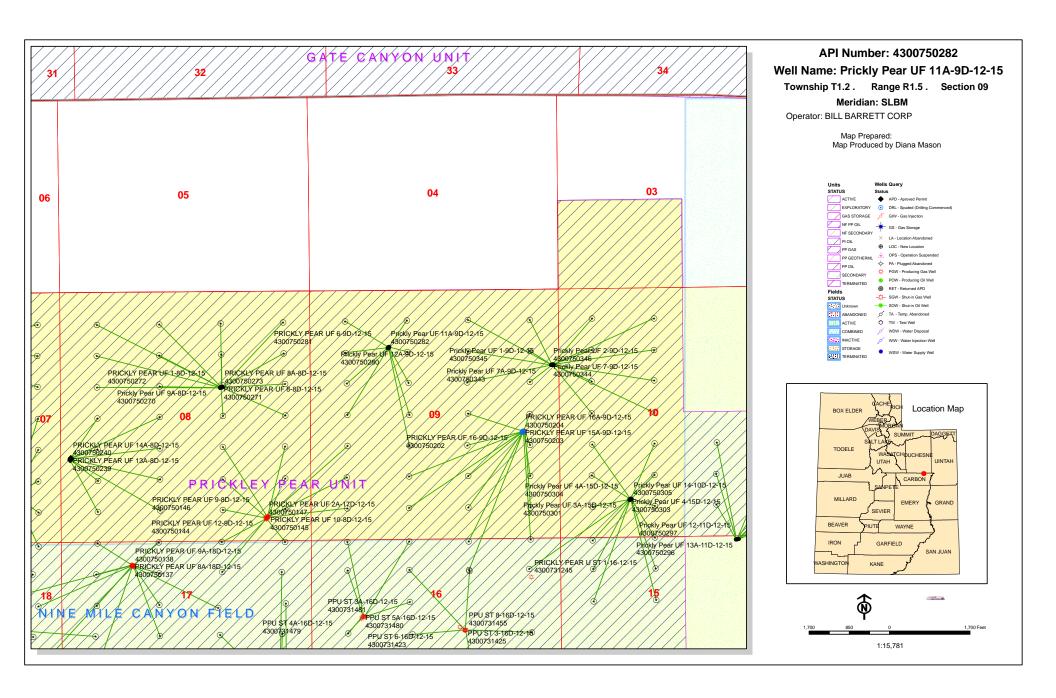
- The above-mentioned proposed location is within the Prickly Pear Unit Area;
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area:
- BBC hereby certifies this well is located within 460 feet of the unit boundary.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. If you should have any questions or need further information, please contact Vicki Wambolt, Landman at 303-312-8513.

Sincerely,

VICU WUUDOH Vicki Wambolt \*\*\*

Landman



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 5/3/2012 **API NO. ASSIGNED:** 43007502820000

PHONE NUMBER: 303 312-8115

**WELL NAME:** Prickly Pear UF 11A-9D-12-15 **OPERATOR:** BILL BARRETT CORP (N2165)

**CONTACT:** Brady Riley

PROPOSED LOCATION: NENW 09 120S 150E Permit Tech Review:

SURFACE: 1227 FNL 1635 FWL Engineering Review:

BOTTOM: 2638 FSL 2061 FWL Geology Review: 

✓

COUNTY: CARBON

LATITUDE: 39.79216 LONGITUDE: -110.24526

**UTM SURF EASTINGS**: 564620.00 **NORTHINGS**: 4404962.00

FIELD NAME: UNDESIGNATED LEASE TYPE: 1 - Federal

**LEASE NUMBER:** UTU73006 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal COALBED METHANE: NO

#### **RECEIVED AND/OR REVIEWED:** LOCATION AND SITING: ✓ PLAT R649-2-3. Unit: PRICKLY PEAR Bond: FEDERAL - WYB000040 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 256-01 Water Permit: NINE MILE CANYON **Effective Date: 12/16/2004 RDCC Review:** Siting: Suspends General Siting Fee Surface Agreement

■ R649-3-11. Directional Drill

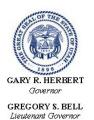
Commingling Approved

Comments: Presite Completed

Intent to Commingle

Stipulations: 4 - Federal Approval - dmason

15 - Directional - dmason



### State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

#### Permit To Drill

\*\*\*\*\*\*

Well Name: Prickly Pear UF 11A-9D-12-15

**API Well Number:** 43007502820000

Lease Number: UTU73006 Surface Owner: FEDERAL Approval Date: 5/17/2012

#### Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

#### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 256-01. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil &

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007)

# **UNITED STATES**



FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

DEPARTMENT OF 3	THE INTERIOR (C)		
BUREAU OF LAND	MANAGEMENT	5. Lease Serial No. UTU73006	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name	e
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name UTU79487	and No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	ner Single Zone Multiple Zone	8. Lease Name and Well No. PRICKLY PEAR UNIT FEDE	RAL 11A-9D
	BRADY RILEY oillbarrettcorp.com	9. API Well No. 43 007 50282	
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303.312.8115 Fx: 303.291.0420	10. Field and Pool, or Exploratory PRICKLY PEAR	
4. Location of Well (Report location clearly and in accorded	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Su	rvey or Area
At surface NENW 1227FNL 1635FWI At proposed prod. zone NESW 2638FSL 2061FWI		Sec 9 T12S R15E Mer SL SME: BLM	В
14. Distance in miles and direction from nearest town or post		12. County or Parish	13. State
46.3 MILES FROM MYTON, UT	onec	CARBON	UT
15. Distance from proposed location to nearest property or	16. No. of Acres in Lease	17. Spacing Unit dedicated to this	well
lease line, ft. (Also to nearest drig. unit line, if any) 18' LEASE; 2662' UNIT	2054.68	20.00	
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth	20. BLM/BIA Bond No. on file	
1509 COMPLETED; 648 LEASE	7909 MD 7518 TVD	WYB000040	
21. Elevations (Show whether DF, KB, RT, GL, etc. 7073 GL	22. Approximate date work will start 08/01/2012	23. Estimated duration 25	
	24. Attachments	RECEIVED	
The following, completed in accordance with the requirements o			_
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off</li> </ol>	Item 20 above). 5. Operator certification	ons unless covered by an existing bond DIV. OF OIL, GAS & MIN formation and/or plans as may be requ	NNG
25. Signature (Electronic Submission)	Name (Printed/Typed) BRADY RILEY Ph: 303.312.8115	Date 03,	/12/2012
Title PERMIT ANALYST			
Approved by (Signature)	Name (Printed/Typed) /s/ Leslie Peters	On Date	21/12
AFM LANDS & MINERALS	PRICE FIELD C		
Application approval does not warrant or certify the applicant ho	lds legal or equitable title to those rights in the subject l	ease which would entitle the applicant	to conduct

operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

#### Additional Operator Remarks (see next page)

Electronic Submission #132847 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Price
Committed to AFMSS for processing by PRISCILLA WHITE-ABUHL on 03/16/2012 (12PCW0401AE)

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF **APPROVAL** 



#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT PRICE FIELD OFFICE



**125 SOUTH 600 WEST** 

**PRICE, UT 84501** 

(435) 636-3600

#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

**Bill Barrett Corporation** 

Prickly Pear Unit Federal 3-9D-12-15

API No:

43-007-50277

Surface Location: NENW-Sec 9-T12S-R15E

Lease No: Agreement: UTU-01519B UTU-79487X

<b>Title</b> Associate Field Manager & Authorized Officer:	Name Leslie Peterson (Acting)	Office Phone Number (435)-636-3661	<b>Cell Phone Number</b> (435) 650-9136
Petroleum Engineer:	Leslie Peterson	(435) 636-3661	(435) 650-9136
Petroleum Engineering Technician	Angela Wadman	(435) 636-3662	(435) 632-8595
NRS/Envir Scientist:	Don Stephens	(435) 636-3608	

RECEIVED

Fax: (435) 636-3657

**CCT 1 1 2012** 

### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR OF OIL, GAS & MINING FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### **NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	_	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Petroleum Eng. Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Petroleum Eng. Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)		Within Five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Date: 9/17/2012

Well: Prickly Pear Unit Federal 11A-9D-12-15

# DRILLING PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DRILLING & PRODUCTION COAS

- While drilling the surface hole with air, a float valve shall be run above the bit, per Onshore Order #2 Part III.E Special Drilling Operations.
- Bill Barrett Corporation (BBC) proposes the use of several different options of production casing (including the N-80, I-100 and P-110 grades). BBC has stated that only the P-110 grade of pipe will be used in the casing and completion of the production hole. Therefore, the use of N-80 and I-100 grade production casing is not approved for use in this well. However, any of these grades may be requested for use in the future by sundry notice.
- When cementing surface casing, if cement returns are not seen at surface, mitigation measures shall be taken to ensure the groundwater and all usable waters are properly protected per Onshore Order #2 Part III.B.1(c) Casing and Cementing Requirements. Cementing jobs where cement reaches surface, then falls back downhole, shall be topped off as necessary until such time the cement remains in-place at surface, prior to starting drilling operations on the next casing string.
- When cementing the production casing, the cement job shall contain sufficient volume to attempt full coverage of exposed hole behind pipe to protect all usable waters, lost circulation zones and other minerals which may be encountered while drilling to total depth, and also provide a minimum 200' foot overlap above the surface casing shoe. A cement bond log (CBL) shall be run to determine the top of cement behind the production casing, and a field copy sent to the Price Field Office.

#### **VARIANCES GRANTED**

. .

- BBC's request for a variance not to use de-duster equipment (Onshore Order #2 Part III.E Special Drilling Operations) is granted, unless the air/mist system is not used.
- BBC's request for a variance to use an electronic flow meter for gas measurement (Onshore Order #5 Measurement of Gas) is granted as long as it meets or exceeds the requirements of Utah NTL 2007-1 regarding the use of Electronic Flow Computers.
- BBC's request for variance from Onshore Order #5 Part III.C.3 Gas Measurement by Orifice Meter to use a flow conditioner on this well instead of straightening vanes is approved with the following conditions:
  - 1. Flow conditioners must be installed in accordance with the manufacturer's specifications.
  - 2. The make, model, and location of flow conditioner must be clearly identified and available to BLM on-site at all times.
  - 3. Thermowells must be placed downstream of the orifice in accordance with API 14.3 (1985).
  - 4. This is a provisional approval that is subject to change pending final review and analysis by BLM. If BLM determines that this flow conditioner cannot meet or exceed the minimum standards required by Onshore Order #5, you will be required to retrofit the installation to comply with BLM requirements, or replace the installation with one that complies with AGA Report Number 3, 1985. The time frame for compliance will be specified by the Price Field Office.

#### STANDARD OPERATING REQUIREMENTS

- The requirements included in Onshore Order #2 Drilling Operations shall be followed.
- A copy of the approved Application for Permit to Drill (APD) for this well shall be on location at all times once drilling operations have commenced.
- The Price Field Office petroleum engineer will be notified 24 hours prior to spudding the well.
- Notify the Price Field Office petroleum engineering technician at least 24 hours in advance of casing cementing operations, BOPE tests and casing pressure or mud weight equivalency tests.
- The requirements of Onshore Order #6 Hydrogen Sulfide Operations shall be followed when operations are being conducted in zones which are known or could reasonably be expected to contain H2S or which, when flared, could produce SO2, in such concentrations that upon release could constitute a hazard to human life. These requirements do not apply when operating in zones where H2S is presently known not to be present or cannot reasonably be expected to be present in concentrations of 100 ppm or more in the gas stream.
- Any deviation from the permitted APD's proposed drilling program shall have prior approval from the petroleum engineer. Changes may be requested verbally (to be followed by a written sundry sent to this office), or submitted by written sundry if time warrants.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed. The
  closing unit controls shall remain unobstructed and readily accessible at all times, and choke
  manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily, and the inspections recorded in the daily drilling report. Components shall be operated and tested, as required by Onshore Order #2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder, and not by the rig pumps. Test results shall be reported in the driller's log.
- All casing strings below the conductor pipe shall be pressure tested to .22 psi/foot or 1500 psi (whichever is greater), but not to exceed 70% of the internal yield pressure.
- No aggressive/fresh hard-banded drill pipe shall be used in the casing design. The proposed use of non-API standard casing must be approved in advance by the petroleum engineer.
- During drilling operations, daily drilling reports shall be submitted by sundry on a weekly basis to the Price Field Office. Within 30 days of finishing drilling and completion operations, a chronological daily operations history shall be submitted by sundry to this office. A copy of all logs run on this well shall be submitted digitally (in PDF or TIFF format) to the Price Field Office.
- A complete set of angular deviation and directional surveys for this directional well will be submitted to the Price Field Office petroleum engineer within 30 days of completing the well.
- The venting or flaring of gas while initially testing the well shall be done in accordance with the
  requirements specified in Notice to Lessees #4A, and shall not exceed a period of 30 days or
  the production of 50 MMCF of gas, whichever occurs first. Additional time needed to vent or
  flare gas during production operations requires prior approval from the Price Field Office.

#### **STANDARD OPERATING REQUIREMENTS (cont.)**

F 3 ( ) , 1 , 1

- Should this well be successfully completed as a producing well, the Price Field Office must be notified within 5 business days following the date the well has first sales.
- Proposed production operations that involve: 1) the commingling of production from wells located on-lease or off-lease, 2) off-lease measurement, or 3) off-lease storage shall have prior written approval from the Price Field Office.
- Operators shall meet the requirements listed in Onshore Order #4 Measurement of Oil and Onshore Order #5 Measurement of Gas. New oil and gas meters shall be calibrated prior to initial product sales. The operator (or its contractors) is responsible for providing the date and time of the initial meter calibration (and all future meter proving schedules) to the petroleum engineering technician. Copies of all meter calibration reports that are performed shall be submitted to the Price Field Office upon request.
- In accordance with 43 CFR 3162.4-3, this well's production data shall be reported on the "Monthly Report of Operations" starting with the month in which drilling operations commence and continue each month until the well is plugged and abandoned.
- The operator is responsible for submitting the information required in 43 CFR 3162.4-1 Well Records and Reports, including BLM Form 3160-4, Well Completion and Recompletion Report and Log which must be submitted to the Price Field Office within 30 days of completing the well.
- Onshore Order #7 authorizes the disposal of water produced from this well in the reserve pit for a period of 90 days after the date of initial production. A permanent disposal method must be submitted and approved by this office, and in operation prior to the end of this 90-day period.
- The requirements of Onshore Order #3 Site Security shall be implemented, and include (as applicable): 1) all lines entering and leaving hydrocarbon storage tanks shall be effectively sealed and seal records maintained, 2) no by-passes are allowed to be constructed around gas meters, 3) a site facility diagram shall be submitted to the Price Field Office within 60 days following construction of the facilities.
- Additional construction that is proposed, or the proposed alteration of existing facilities (including roads, gathering lines, batteries, etc.), which will result in the disturbance of new ground, requires prior approval of the Price Field Office natural resource specialist.
- This well and its associated facilities shall have identifying signs on location in accordance with 43 CFR 3162.6 requirements.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will
  be reported to the Price Field Office natural resource specialist.
- The Price Field Office petroleum engineer shall be notified 24 hours in advance of the plugging of the well (unless the plugging is to take place immediately upon receipt of oral approval), so that a technician may have sufficient time to schedule and witness the plugging operations.
- If operations are to be suspended on a well for more than 30 days, prior approval of the Price Field Office shall be obtained, and notification also given before operations resume.

Page 5 of 7
Date: 9/17/2012
Well: Prickly Pear Unit Federal 11A-9D-12-15

## SURFACE USE CONDITIONS OF APPROVAL

Project Name: BBC Prickly Pear NW 9 Pad

Operator: Bill Barrett Corporation

#### **List of Wells:**

4 , 5 3 , 5 ,

Name	Number	Section	TWP/RNG
Prickly Pear	3-9D-12-15	9	T12SR15E
Prickly Pear	4-9D-12-15		
Prickly Pear	5-9D-12-15		
Prickly Pear	5A-9D-12-15		
Prickly Pear	6-9D-12-15		
Prickly Pear	6A-9D-12-15		
Prickly Pear	11-9D-12-15		
Prickly Pear	11A-9D-12-15		
Prickly Pear	12A-9D-12-15		

#### I To be followed as Conditions of Approval:

The following attachments from the Record of Decision West Tavaputs Plateau Natural Gas Full Field Development Plan:

Attachment 2	Conditions of Approval and Stipulations
Attachment 3	Green River District Reclamation Guidelines
Attachment 4	Programmatic Agreement
Attachment 5	Special Protection Measures for Wildlife
Attachment 6	Agency Wildlife Mitigation Plan
Attachment 7	Long-Term Monitoring Plan for Water Resources
Attachment 8	Mitigation Compliance and Monitoring Plan

#### II Site Specific Conditions of Approval

- 1. A pre-construction field meeting may be conducted prior to beginning any dirt work approved under this APD. The operator shall contact Don Stephens with the Price BLM Field Office @ 435-636-3608 at least 48-hours prior to beginning operations so that the meeting can be scheduled. The operator is responsible for having all contractors present (dirt contractors, drilling contractor, pipeline contractor, project oversight personnel, etc.) including the overall field operations superintendent, and for providing all contractors copies of the approved APD(s), project map and BLM Conditions of Approval pertinent to the work that each will be doing.
- 2. The cuttings trench shall be lined.
- 3. The cuttings shall not be removed from the location without prior approval of the Authorized Officer.

4. The operator shall on an annual basis report to the BLM the acre feet of water used for the project with a total for each type of source. This report shall contain the information found under monitoring on page 53 of attachment 9 (Biological Opinion) of the WTP ROD and shall be reported to BLM by September 15, of each year.

- 5. When water is pumped directly from Nine Mile Creek or perennial drainages, the following measures shall be applied to reduce or eliminate direct impacts to habitat for the Colorado River fish species. Where directed by the BLM, the operator will construct erosion control devices (e.g., riprap, bales, and heavy vegetation) at culvert outlets. All construction activities shall be performed to retain natural water flows.
- 6. Contact Don Stephens, Natural Resource Specialist, (435) 636-3608, Bureau of Land Management, Price Field Office, if there are any questions concerning these surface use COA.

#### III Standard Conditions of Approval

#### A. General

1. If any cultural values [sites, artifacts, human remains] are observed during operation of this lease/permit/right-of-way, they will be left intact and the Price Field Manager notified. The authorized officer will conduct an evaluation of the cultural values to establish appropriate mitigation, salvage or treatment. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized BLM officer (AO).

#### **B.** Construction

- 1. Remove all available topsoil from constructed well locations including areas of cut and fill, and stockpile at the site. Topsoil will also be salvaged for use in reclamation on all other areas of surface disturbance (roads, pipelines, etc.). Clearly segregate topsoil from excess spoil material.
- 2. During construction, emissions of particulate matter from well pad and road construction would be minimized by application of water or other non-saline dust suppressants with at least 50 percent control efficiency. Dust inhibitors (surfacing materials, non-saline dust suppressants, and water) will be used as necessary on unpaved roads that present a fugitive dust problem. The use of chemical dust suppressants on public surface will require prior approval from the BLM Authorized Officer.
- 3. The operator shall submit a Sundry Notice (Form 3160-5) to BLM for approval prior to construction of any new surface disturbing activities that are not specifically addressed in the approved APD.

#### C. Operations/Maintenance

1. In accordance with OSHA requirements, a file will be maintained onsite containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds and/or substances which are used in the course of construction, drilling, completion and production operations.

Page 7 of 7
Date: 9/17/2012
Well: Prickly Pear Unit Federal 11A-9D-12-15

#### D. Dry Hole/Reclamation

1. Phased reclamation plans will be submitted to BLM for approval prior to individual POD facility abandonment via a Notice of Intent (NOI) Sundry Notice.

- 2. BLM will not release the performance bond until all disturbed areas associated with the APD/POD have been successfully revegetated (evaluation will be made after the second complete growing season) and has met all other reclamation goals of the surface owner and surface management agency.
- 3. A Notice of Intent to Abandon and a Subsequent Report of Abandonment must be submitted for abandonment approval.
- 4. For performance bond release approval, a Final Abandonment Notice (with a surface owner release letter on split-estate) must be submitted prior to a final abandonment evaluation by BLM.

#### E. Producing Well

- 1. An interim reclamation plan shall be submitted to BLM within 90 days of APD approval.
- 2. Upgrade and maintain access roads and drainage control (e.g., culverts, drainage dips, ditching, crowning, surfacing, etc.) as necessary and as directed by the BLM Authorized Officer to prevent soil erosion and accommodate safe, environmentally-sound access.
- 3. Prior to construction of production facilities not specifically addressed in the APD, the operator shall submit a Sundry Notice to the BLM Authorized Officer for approval.

#### F. Roads and Pipelines

- 1. Roads constructed on BLM lands shall be constructed to allow for drainage and erosion control. The operator is responsible for maintenance of all roads authorized through the lease or right-of-way. Construction and maintenance shall comply with Class III Road Standards with a 16-ft wide graveled travel surface as described in BLM Manual Section 9113, and the BLM Gold Book standards, except as modified by BLM. Maintenance may include but is not limited to grading, applying gravel, snow removal, ditch cleaning, and headcut restoration/prevention.
- 2. The operator may be required to provide an inspector under the direction of a registered professional engineer (PE) at all times during road construction.
- 3. Erosion-control structures such as water bars, diversion channels, and terraces will be constructed to divert water and reduce soil erosion on the disturbed area. Road ditch turnouts shall be equipped with energy dissipaters as needed to avoid erosion. Where roads interrupt overland sheet-flow and convert this runoff to channel flow, ditch turnouts shall be designed to reconvert channel flow to sheet flow. As necessary cut banks, road drainages, and road crossings shall be armored or otherwise engineered to prevent headcutting.

Sundry Number: 37317 API Well Number: 43007502820000

			FORM 9
	STATE OF UTAH		
	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-73006
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: PRICKLY PEAR
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: PRICKLY PEAR UF 11A-9D-12-15
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43007502820000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202 3	PHONE NUMBER: 03 312-8134 Ext	9. FIELD and POOL or WILDCAT: NINE MILE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1227 FNL 1635 FWL			COUNTY: CARBON
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENW Section:	HIP, RANGE, MERIDIAN: 09 Township: 12.0S Range: 15.0E Meric	lian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
5/17/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:			
	OPERATOR CHANGE	PLUG AND ABANDON	L PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Nopon Suio.	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	Il pertinent details including dates.	depths, volumes, etc.
	g submitted to request an ex		
,	13. BBC has federal approva		<b>Utah Division of</b>
not expire until 2019	<ol><li>Please contact Brady Rile</li></ol>	y at 303-312-8115 with	Oil, Gas and Mining
	questions.		Date: May 14, 2013
			By: Daggill
			4.5
NAME (PLEASE PRINT)	PHONE NUMBI	ER TITLE	
Brady Riley	303 312-8115	Permit Analyst	
SIGNATURE N/A		<b>DATE</b> 5/3/2013	

Sundry Number: 37317 API Well Number: 43007502820000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43007502820000

API: 43007502820000

Well Name: PRICKLY PEAR UF 11A-9D-12-15

Location: 1227 FNL 1635 FWL QTR NENW SEC 09 TWNP 120S RNG 150E MER S

Company Permit Issued to: BILL BARRETT CORP

**Date Original Permit Issued:** 5/17/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated Yes  No	i? 🔵
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or sit requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>	ting
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation proposed well?</li> <li>Yes</li> <li>No</li> </ul>	on of this
<ul> <li>Have there been any changes to the access route including ownership, or rightof- way, which could a proposed location?</li> <li>Yes</li> <li>No</li> </ul>	affect the
• Has the approved source of water for drilling changed?   Yes  No	
<ul> <li>Have there been any physical changes to the surface location or access route which will require a chaplans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>	ange in
• Is bonding still in place, which covers this proposed well?   Yes   No	

**Signature:** Brady Riley **Date:** 5/3/2013

Title: Permit Analyst Representing: BILL BARRETT CORP

Sundry Number: 51012 API Well Number: 43007502820000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-73006
SUNDF	RY NOTICES AND REPORTS (	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME: PRICKLY PEAR
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: PRICKLY PEAR UF 11A-9D-12-15
2. NAME OF OPERATOR: ENERVEST OPERATING, LLC	;		9. API NUMBER: 43007502820000
3. ADDRESS OF OPERATOR: 1001 Fannin Street, Suite 8	800 , Houston, TX, 77002	PHONE NUMBER: 713 659-3500 Ext	9. FIELD and POOL or WILDCAT: NINE MILE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1227 FNL 1635 FWL			COUNTY: CARBON
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NENW Section:	HIP, RANGE, MERIDIAN: 09 Township: 12.0S Range: 15.0E Merid	ian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	ALTER CASING  CHANGE TUBING	CASING REPAIR CHANGE WELL NAME
7/15/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE  PRODUCTION START OR RESUME	☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE	☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  EnerVest Operating, LLC requests a one year drilling permit extension for the referenced well. This is the second extension that has been requested.  Approved by the Utah Division of Oil, Gas and Mining May 14, 2014  Date:  By:			
NAME (PLEASE PRINT)	PHONE NUMBE		
Don Hamilton	435 650-3866	Permitting Agent	
SIGNATURE N/A		<b>DATE</b> 5/10/2014	

Sundry Number: 51012 API Well Number: 43007502820000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43007502820000

API: 43007502820000

Well Name: PRICKLY PEAR UF 11A-9D-12-15

Location: 1227 FNL 1635 FWL QTR NENW SEC 09 TWNP 120S RNG 150E MER S

Company Permit Issued to: ENERVEST OPERATING, LLC

**Date Original Permit Issued:** 5/17/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
<ul> <li>Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?</li> <li>Yes</li> <li>No</li> </ul>
• Has the approved source of water for drilling changed? 🔘 Yes 📵 No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No

Signature: Don Hamilton Date: 5/10/2014

Title: Permitting Agent Representing: ENERVEST OPERATING, LLC

Sundry Number: 60715 API Well Number: 43007502820000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-73006
SUNDF	RY NOTICES AND REPORTS (	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME: PRICKLY PEAR
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: PRICKLY PEAR UF 11A-9D-12-15
2. NAME OF OPERATOR: ENERVEST OPERATING, LLC	;		9. API NUMBER: 43007502820000
3. ADDRESS OF OPERATOR: 1001 Fannin Street, Suite 8	800 , Houston, TX, 77002	PHONE NUMBER: 713 659-3500 Ext	9. FIELD and POOL or WILDCAT: NINE MILE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1227 FNL 1635 FWL			COUNTY: CARBON
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NENW Section:	HIP, RANGE, MERIDIAN: 09 Township: 12.0S Range: 15.0E Merid	ian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
8/15/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	New Construction
Date of Work Completion:			
	OPERATOR CHANGE	PLUG AND ABANDON	L PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date.	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	Il pertinent details including dates.	denths, volumes, etc.
	g LLC requests a one year dr		Approved by the
	d well. This is the second ext		Uftebroarision, 2015
	requested.		Oil, Gas and Mining
			Date:
			By: Daggill
			7/3
NAME (PLEASE PRINT)	PHONE NUMBE	R TITLE	
Don Hamilton	435 650-3866	Permitting Agent	
SIGNATURE N/A		<b>DATE</b> 2/10/2015	

Sundry Number: 60715 API Well Number: 43007502820000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43007502820000

API: 43007502820000

Well Name: PRICKLY PEAR UF 11A-9D-12-15

Location: 1227 FNL 1635 FWL QTR NENW SEC 09 TWNP 120S RNG 150E MER S

Company Permit Issued to: ENERVEST OPERATING, LLC

**Date Original Permit Issued:** 5/17/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
neture. Den Hamilton Dete: 2/40/2045

Signature: Don Hamilton Date: 2/10/2015

Title: Permitting Agent Representing: ENERVEST OPERATING, LLC



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER

Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

May 19, 2016

Enervest Operating, LLC 1001 Fannin St Ste 800 Houston, TX 77002

Re: APDs Rescinded for Enervest Operating, LLC, Carbon County

Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of May 19, 2016.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

Environmental Scientist

ianc Mason

cc: Well File

Bureau of Land Management, Price



Prickly Pear UF 1A-27D-12-15	43-007-50161
Prickly Pear UF 2A-27D-12-15	43-007-50162
Prickly Pear UF 3A-27D-12-15	43-007-50163
Prickly Pear UF 9A-22D-12-15	43-007-50164
Prickly Pear UF 10A-22D-12-15	43-007-50165
Prickly Pear UF 11A-22D-12-15	43-007-50166
Prickly Pear UF 12A-22D-12-15	43-007-50167
Prickly Pear UF 14A-22D-12-15	43-007-50168
Prickly Pear UF 15A-22D-12-15	43-007-50169
Prickly Pear UF 16A-22D-12-15	43-007-50170
Prickly Pear UF 5A-8D-12-15	43-007-50260
Prickly Pear UF 6A-8D-12-15	43-007-50261
Prickly Pear UF 4-8D-12-15	43-007-50262
Prickly Pear UF 3-8D-12-15	43-007-50263
Prickly Pear UF 2-8D-12-15	43-007-50264
Prickly Pear UF 7A-8D-12-15	43-007-50265
Prickly Pear UF 7-8D-12-15	43-007-50266
Prickly Pear UF 5-8D-12-15	43-007-50267
Prickly Pear UF 6-8D-12-15	43-007-50268
Prickly Pear UF 10A-8D-12-15	43-007-50269
Prickly Pear UF 9A-8D-12-15	43-007-50270
Prickly Pear UF 8-8D-12-15	43-007-50271
Prickly Pear UF 1-8D-12-15	43-007-50272
Prickly Pear UF 8A-8D-12-15	43-007-50273
Prickly Pear UF 5-9D-12-15	43-007-50274
Prickly Pear UF 5A-9D-12-15	43-007-50275
Prickly Pear UF 4-9D-12-15	43-007-50276
Prickly Pear UF 3-9D-12-15	43-007-50277
Prickly Pear UF 6A-9D-12-15	43-007-50278
Prickly Pear UF 11-9D-12-15	43-007-50279
Prickly Pear UF 12A-9D-12-15	43-007-50280
Prickly Pear UF 6-9D-12-15	43-007-50281
Prickly Pear UF 11A-9D-12-15	43-007-50282
Prickly Pear UF 5A-15D-12-15	43-007-50284
Prickly Pear UF 6A-15D-12-15	43-007-50285
Prickly Pear UF 3-15D-12-15	43-007-50286
Prickly Pear UF 14A-10D-12-15	43-007-50292
Prickly Pear UF 11-10D-12-15	43-007-50300
Prickly Pear UF 3A-15D-12-15	43-007-50301
Prickly Pear UF 12-14D-12-15	43-007-50302
Prickly Pear UF 4-15D-12-15	43-007-50303
Prickly Pear UF 4A-15D-12-15	43-007-50304
Prickly Pear UF 14-10D-12-15	43-007-50305
Prickly Pear UF 1-9D-12-15	43-007-50345
Prickly Pear UF 2-9D-12-15	43-007-50346